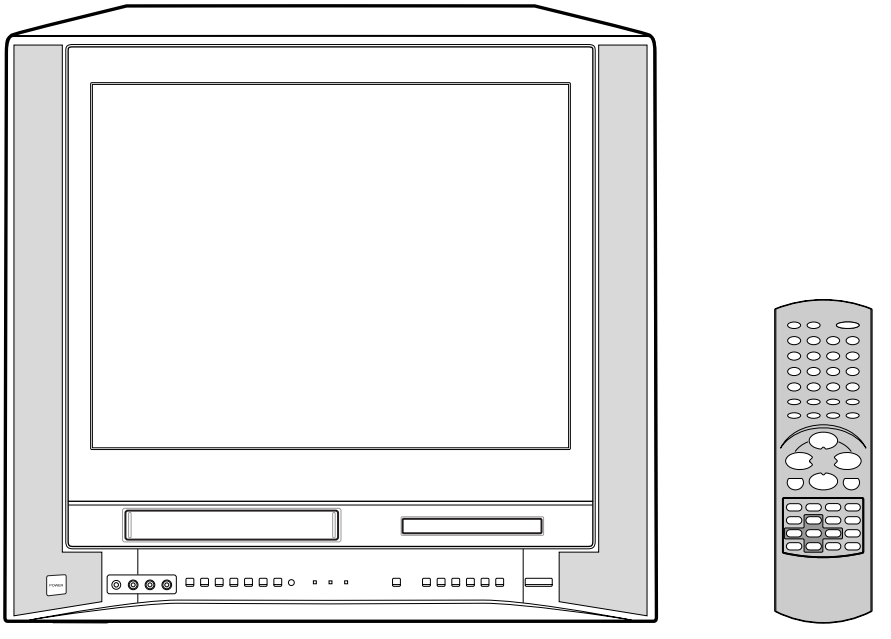
TOSHIBA

MODEL VTW2185 ***USER GUIDE***

Region 2 discs only



Combination 21" Flat TV and
Video Recorder/DVD Video Player
FASTEXT

PAL

IMPORTANT

Unauthorized recording of copyright television programmes, films, video tapes and other materials may infringe on the rights of copyright owners and be contrary to copyright laws.

WARNING

To prevent fire or shock hazard, do not expose this equipment to rain or moisture.

MAINS SUPPLY

This unit is designed to operate from AC 230 ~ 240V 50Hz household mains supply.

This unit is supplied with an approved 13 amp (BS 1363) fused mains plug. When replacing the fuse always use a 5 amp (BS 1362) approved type.
Never use this plug if the fuse cover is missing. To obtain a replacement fuse cover contact your store.
If the mains sockets in your home differ or are not suitable for the type of plug supplied, then the plug should be cut from the mains lead and a suitable type fitted.

WARNING: If the mains plug is cut from the mains lead of this appliance the plug must be destroyed. A mains plug with bared wires is hazardous if engaged in a mains output line socket.

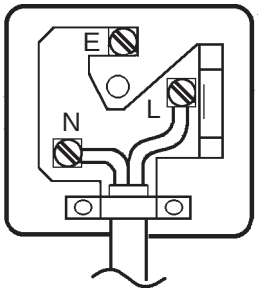
You must use a 13 amp plug (BS 1363) and fit a 5 amp fuse (BS 1362). If any other type of plug is used a 5 amp fuse must be fitted, either in the plug, adaptor or at the distribution board.

WIRING INSTRUCTIONS

The wires in the mains lead are coloured in accordance with the following code:

BLUE	—	NEUTRAL
BROWN	—	LIVE

As the colours of the wires in the mains lead of the appliance may not correspond to the coloured markings identifying the terminals in your plug, proceed as follows:
The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured black.
The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured red.
No connection is to be made to the Earth (E, ⏚) terminal.



CAUTION:

THIS UNIT IS A CLASS 1 LASER PRODUCT. HOWEVER THIS UNIT USES A VISIBLE LASER BEAM WHICH COULD CAUSE HAZARDOUS RADIATION EXPOSURE IF DIRECTED. BE SURE TO OPERATE THE PLAYER CORRECTLY AS INSTRUCTED.

THE FOLLOWING CAUTION LABEL IS LOCATED ON THE REAR PANEL OF THE UNIT.

CLASS 1
LASER PRODUCT

WHEN THIS UNIT IS PLUGGED INTO THE WALL OUTLET, DO NOT PLACE YOUR EYES CLOSE TO THE OPENING OF THE DISC TRAY AND OTHER OPENINGS TO LOOK INTO THE INSIDE OF THIS UNIT.

USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

DO NOT OPEN COVERS AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

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The VIDEO Plus+ system is manufactured under license from Gemstar Development Corporation.

FEATURES

TV/VCR
- Flat Picture Tube
- Twin Tuner
- Auto Set Up (Channel and Clock)
- FASTEXT Function
- PDC (Programme Delivery Control)
- One-Touch Timer Recording (OTR)
- 30 Minute Back Up
- Real Time Tape Counter with Zero Return
- NTSC Playback (PAL 60Hz)
- On-Screen Programming
- Picture Control Adjustments
- VIDEO Plus+® Recording System
- NICAM Stereo
- Slow Motion
- Video Index Search System
- Digital Auto Tracking
- Programmable ON/OFF Timer
- Auto Power On/Auto Play
- Auto Rewind/Auto Eject
- Dual Speed Picture Search
- 2 Speed (SP/LP) Record/ Playback
- Sleep Timer
- Auto Repeat Play

DVD Player
- Digital Audio Jack (Coaxial)
- Multi-Language
- Multi-Angle
- Repeat Playback
- Memory/Random Playback
- Zoom
- Video Aspect Ratio
- Parental Control
- Digital output for Dolby Digital (AC-3) and DTS
- Playback of DVD, Video-CD, Audio-CD and MP3-CD
- PAL & NTSC DVDs playback
- A-B Repeat playback

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SPECIFICATION ..... BACK COVER

PRECAUTIONS

DO read the operating instructions before you attempt to use the equipment.
DO consult your dealer if you are ever in doubt about the installation, operation or safety of your equipment.
DO NOT remove any fixed cover as this may expose dangerous voltages.
DO NOT place hot objects such as candles or nightlights on, or close to, the equipment. High temperatures can melt plastic and lead to fires.

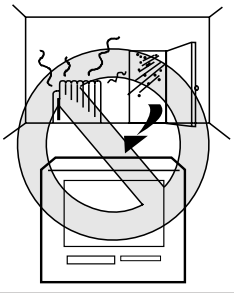
MOISTURE CONDENSATION

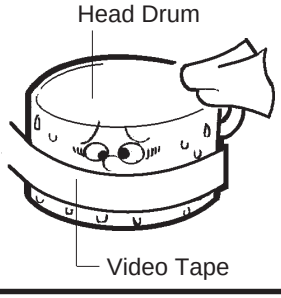
If the unit is suddenly moved from a cold place to a warm place, moisture may form inside the unit. In this case, do not operate it for two or three hours.

■ **WHAT IS MOISTURE CONDENSATION?**
When cold water is poured into a glass, for, example, water vapor in the air will condense on the surface of the glass. This is called moisture condensation.

■ **MOISTURE WILL CONDENSE ON THE UNIT IN THE FOLLOWING CASES;**
- When you move the unit from a cold to a warm place.
- After heating a cold room or under extremely humid conditions.

■ **IF YOU EXPERIENCE THE ABOVE CONDITIONS;**
Plug the AC cord to AC outlet, set the Main Power Switch to ON and leave the unit at the room temperature until moisture condensation disappears. Depending on the surrounding conditions, this may take two or three hours.



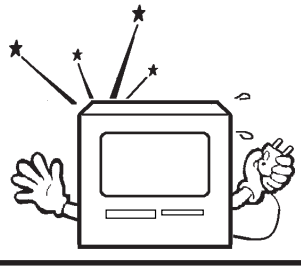


Under certain conditions, such as low humidity or walking across wool carpet, you may experience a static discharge when touching the unit. If this happens and it fails to function, follow the procedure below.

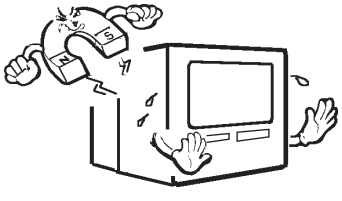
1) Un-plug the unit from the AC outlet.

2) This may take two or three hours.

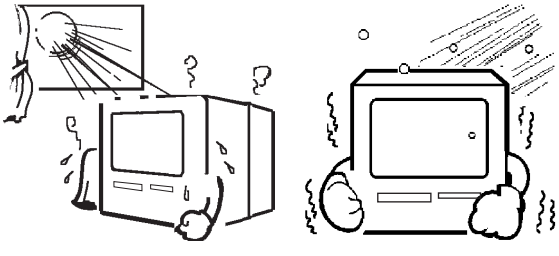
3) Re-plug the unit again.



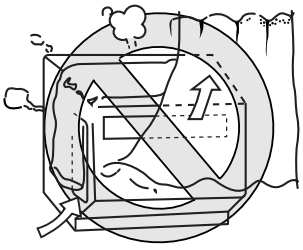
Do not place the unit on or near appliances which may cause electromagnetic interference eg. TV or hi-fi speakers, etc. Doing so may affect operation of unit causing erratic playing or recording, picture or sound distortion, or noise.



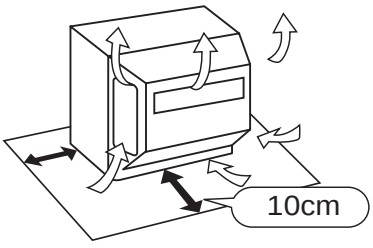
Avoid extreme heat and cold.



Do not block the ventilation holes.

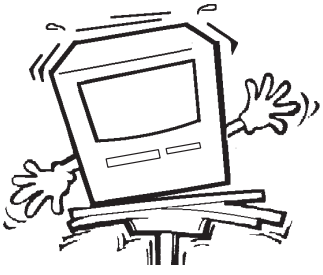


Place the unit at least 10 cm away from the walls for good air circulation.



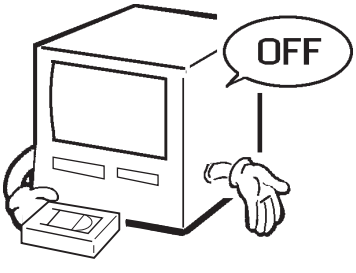
Do not insert fingers or any other objects into the cassette loading slot. Do not spray cleaner or wax directly on the unit or use forced air to remove dust.

Place the unit on a flat, stable, level surface, and never subject it to violent shaking or any other shock or impact.

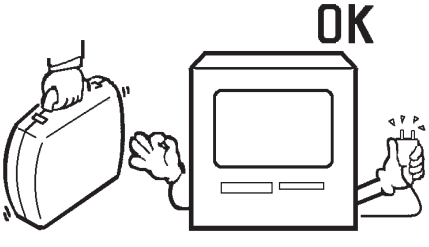


Keep the unit away from flower vases, sink etc. Liquids spilled into the unit can cause serious damages. Switch OFF the Power Supply to the unit and consult a qualified service engineer before attempting to use the unit again.

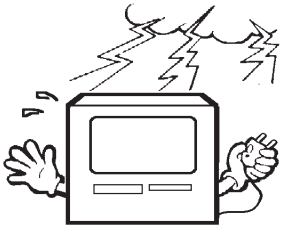
When you finish operating the unit, always unload the cassette and turn off the power.



When you leave your home for a long period of time, unplug the AC mains lead.

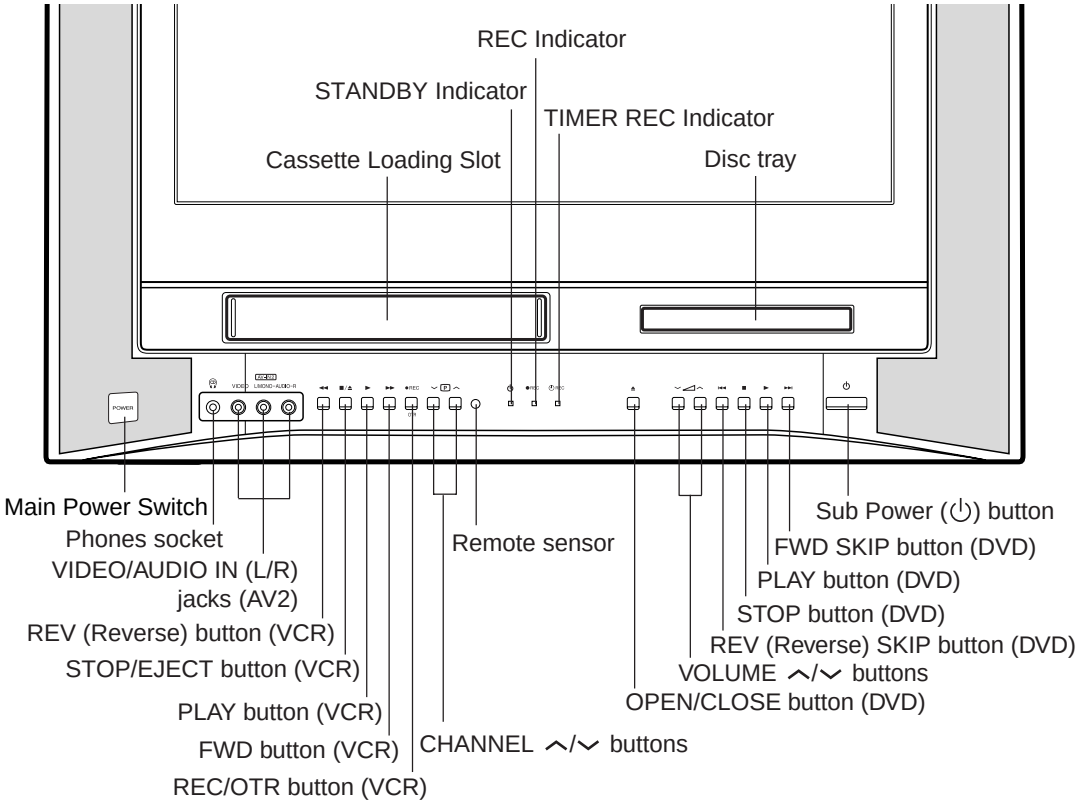


To protect the unit during a thunder storm, unplug the AC mains lead from the wall outlet and disconnect the Aerial.

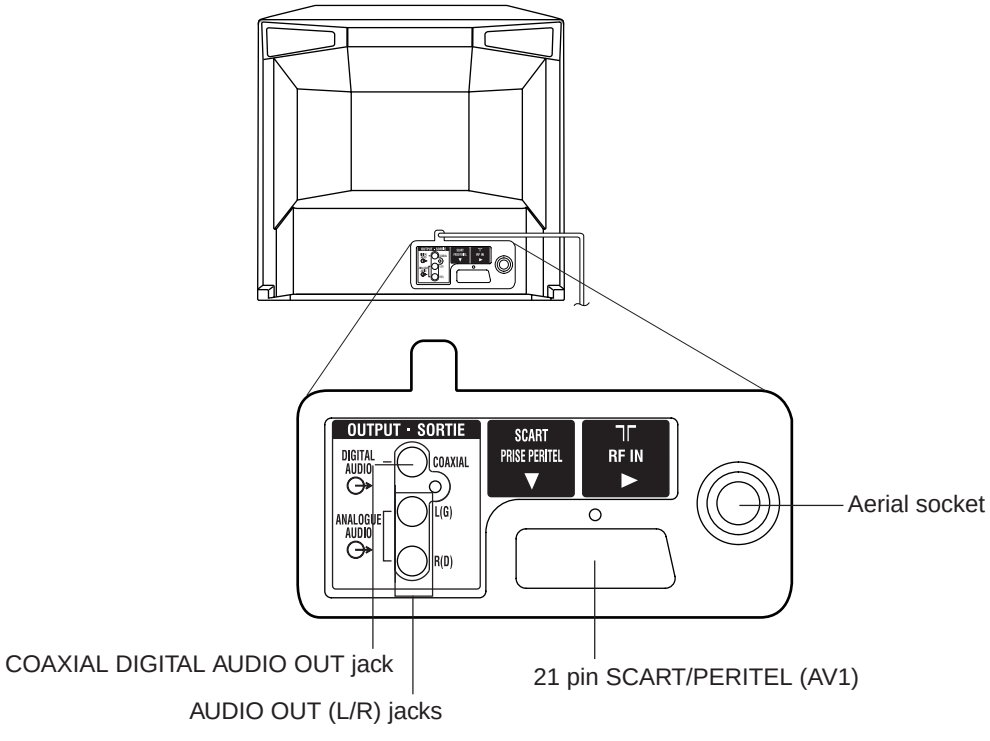


LOCATION OF CONTROLS

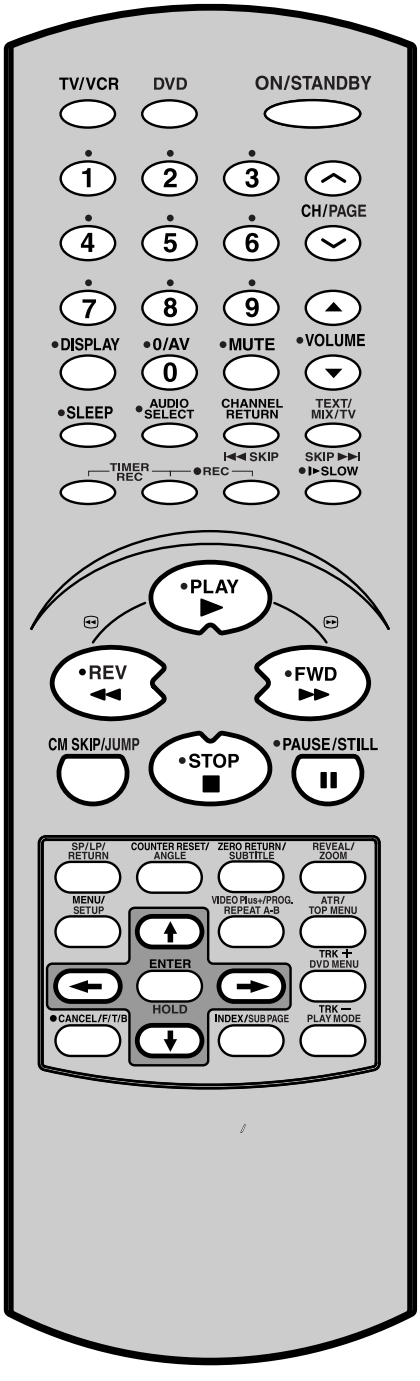
Front



REAR



REMOTE CONTROL



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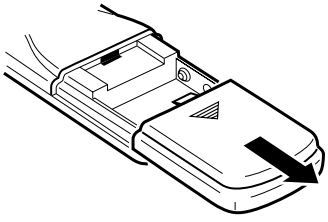
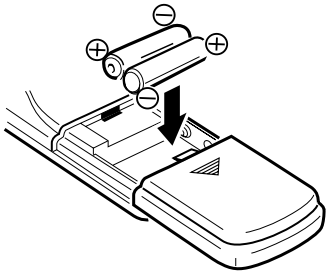
BATTERY INSTALLATION

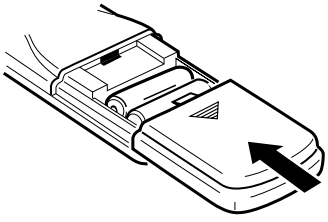
1 Open the battery compartment cover in the direction of the arrow.



2 Install two “AAA/R03/UM-4” (penlight size) batteries, paying attention to the polarity diagram in the battery compartment.



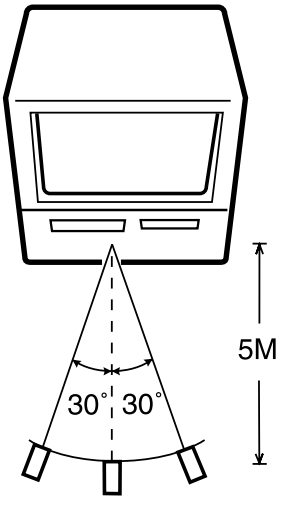
3 Replace the cover.



BATTERY CAUTIONS

- Use two "AAA/R03/UM-4" size penlight batteries for the remote control transmitter.
- The batteries may last approximately one year depending on how much the remote control is used. For best performance it is recommended batteries be replaced on a yearly basis, or when remote operation becomes erratic.
- Do not mix old and new batteries.
- Weak batteries can leak and severely damage the remote control transmitter. Always remove batteries as soon as they become weak.

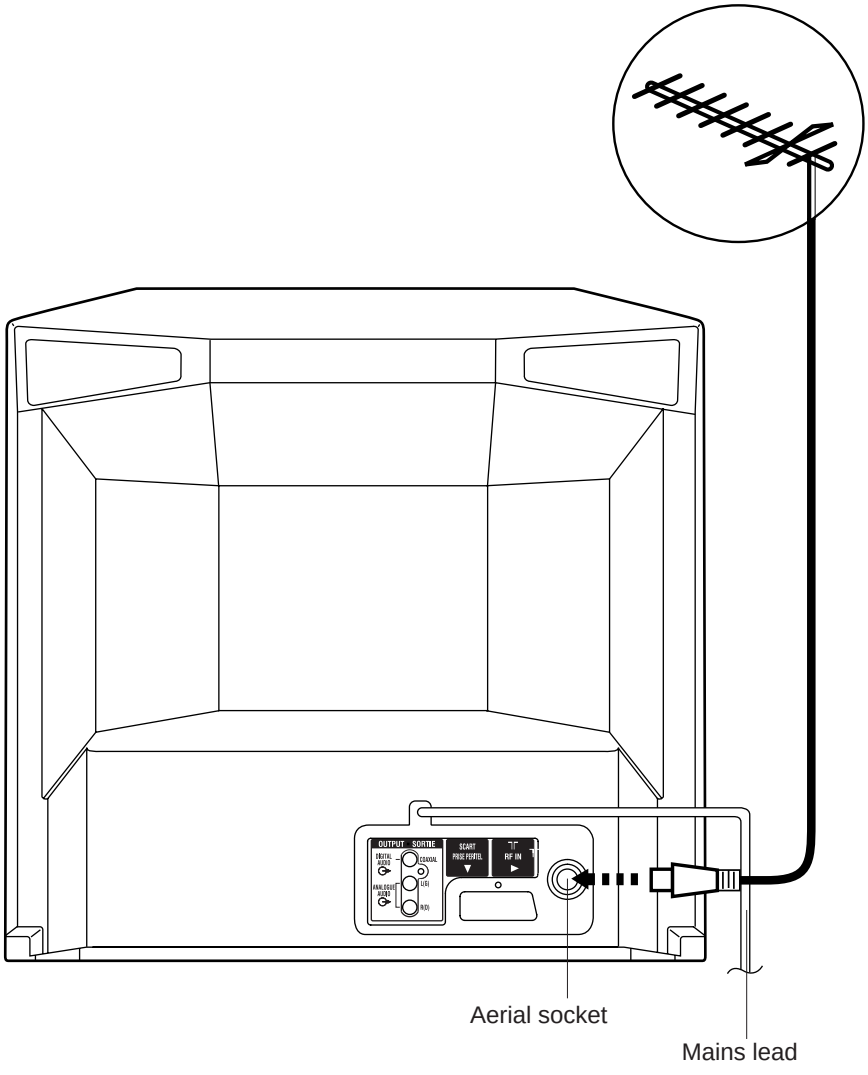
EFFECTIVE DISTANCE OF THE REMOTE CONTROL TRANSMITTER



NOTE:
- When direct sunlight, an incandescent lamp, fluorescent lamp or any other strong light shines on the remote sensor, the remote operation may be unstable.
- When there is an obstacle between the unit and the transmitter, the remote control transmitter may not operate.

AERIAL CONNECTIONS

Connect an indoor or outdoor antenna to the aerial socket at the rear panel as shown below.
For all aerial circuit problems, please consult your local dealer.



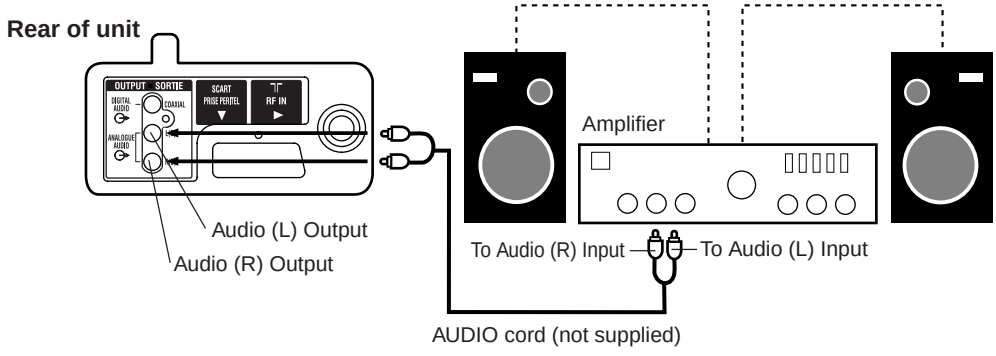
EXTERNAL AERIAL

The type of aerial required depends on the position of your home, its distance from the transmitter and local interference. If you do not have an aerial and you are uncertain of what to buy, you should seek the advice of a local aerial contractor.

CONNECTIONS TO OTHER EQUIPMENT

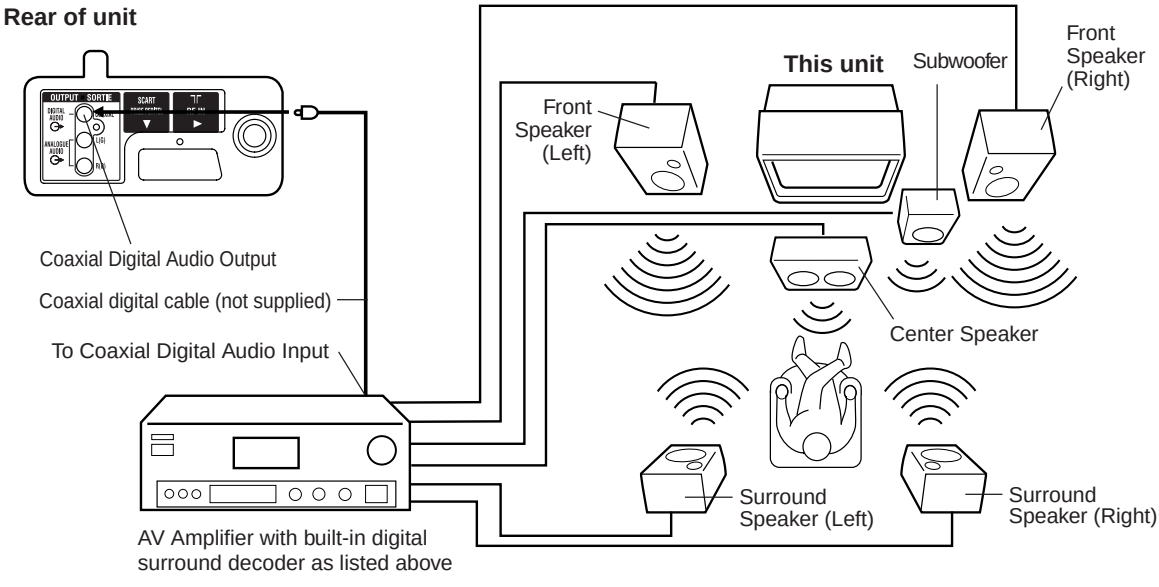
The exact arrangement you use to interconnect various video and audio components to the unit is dependent on the model and features of each component. Check the Owner's Manual provided with each component for the location of video and audio inputs and outputs.

Using an Audio Amplifier



Using an AV Amplifier with built-in digital surround

If you are using an Amplifier with a built-in digital surround sound decoder (such as Dolby Digital / DTS / MPEG / etc.), you can connect it as shown below.



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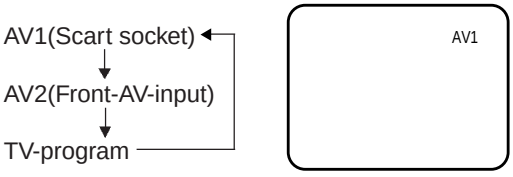
* DTS and DTS Digital Out are trademarks of Digital Theatre Systems, Inc.

NOTE:
- When you make the connections above, make sure that the power of all units is switched off at the mains.
- Some DTS decoders which do not support DVD-DTS interface may not work properly with the unit.
- When playing DTS encoded material, the sound will only be available through the Digital Audio Output Socket.

Input Selection

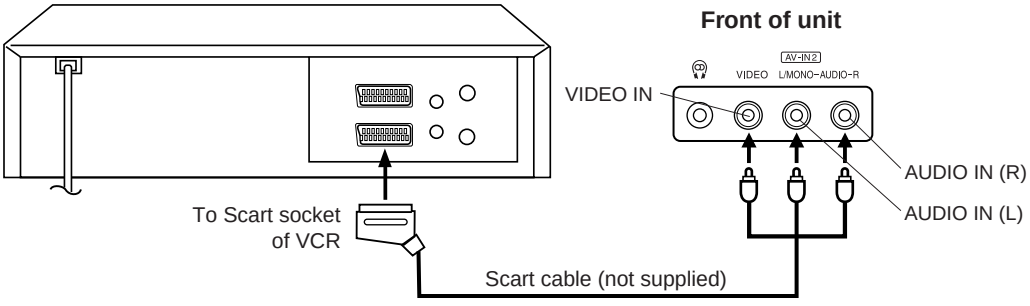
If you connect the unit to a VCR, camcorder or games console, you can select this input by pressing the **AV** button.

Press the **TV/VCR** button to select the TV mode and then press the **AV** button repeatedly to select AV1 or AV2.



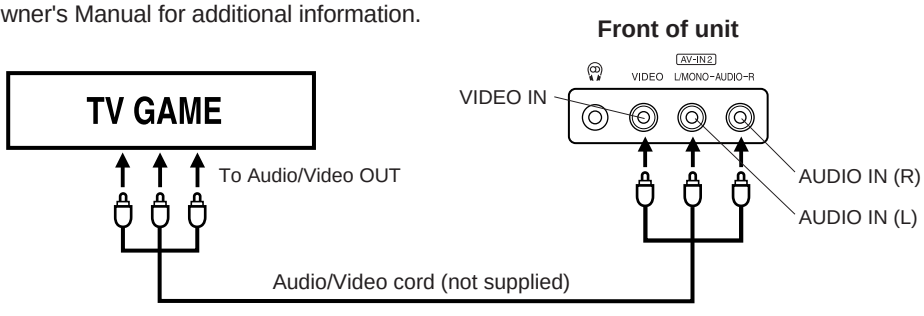
1. To connect the unit to a VCR

Press the **AV** button to select AV2 to use the TV as a monitor.



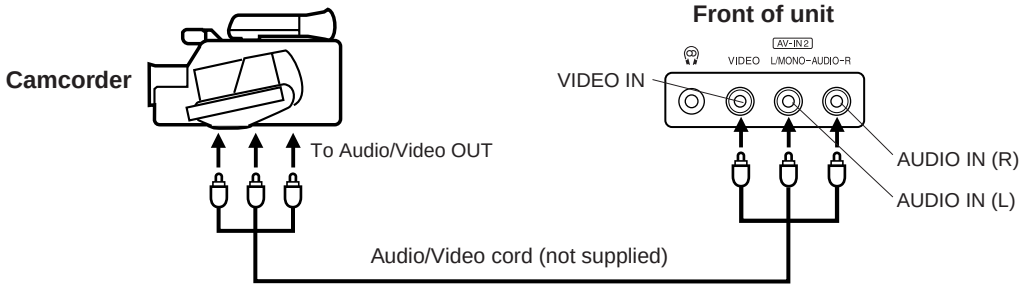
2. To connect the TV to a TV Game

The unit can also be used as a display device for many video games. However, due to the wide variety of different types of signal generated by these devices and subsequent hook-up variations required, they have not all been included in the suggested connection diagrams. Press the **AV** button to select AV2 to use the TV as a monitor. You'll need to consult each component's Owner's Manual for additional information.



3. To connect the TV to a camcorder

To playback from a camcorder, connect the camcorder to the unit as shown.
Press the **AV** button to select AV2 to use the TV as a monitor.
If you wish to make a recording from the camcorder, follow the same instructions as recording a TV programme (P.26-27), but select AV2 for the channel.



4. To connect the unit to another TV set (ie. a widescreen set)

Connect the unit and another TV set with a Scart cable.
Press the **AV** button to select AV1 to use the TV as a monitor (see P.53).

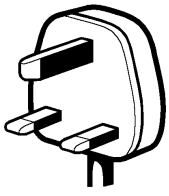
AUTO SET UP

Make sure an aerial lead is connected from your household aerial (page 7).
You must follow the instructions on this page carefully.
Your unit will not function properly until Auto Set Up has been completed.

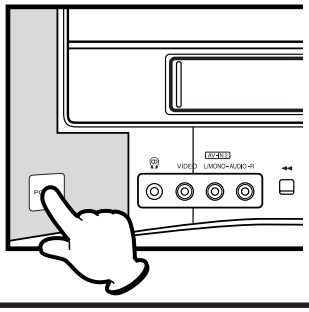
What is Auto Setup

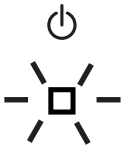
- The AUTO SET UP feature makes installing your unit easy. It automatically searches and tunes all available TV Stations and stores them in your unit, it then sets the correct time and date.
- During a power failure or disconnection of the mains lead, the clock and all its programmed setting will remain in the memory for 30 minutes. If the power failure is longer than 30 minutes you will have to reset the present time.

1 Make sure an aerial lead is connected from your household aerial or cable box (if you subscribe to a cable service).
Plug your unit into a mains socket.



2 Press MAIN POWER switch on the unit. The STANDBY (⏻) indicator on the unit lights.





Press ON (⏻) button on the unit. The STANDBY (⏻)indicator on the unit turns off. "AUTO TUNING" appears on the screen. Your unit is now automatically tuning in all available TV stations and setting the correct time and date. If the desired TV stations could not be preset, set the channels manually. See page 12. If the clock could not be set, set the clock manually. See page 11.

AUTO TUNING

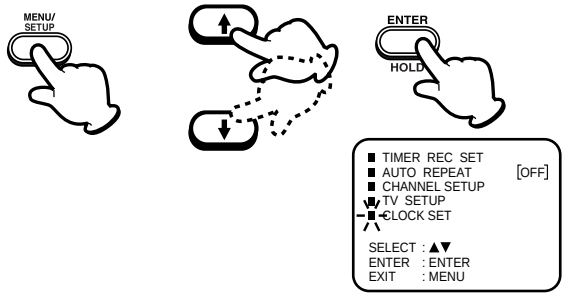
NOTES:
- To re-start AUTO SET UP, press and hold CHANNEL ∨ and ∧ buttons on the unit together for more than a few seconds.
- Once you conduct AUTO SET UP, the previous settings will be cancelled.

MANUAL CLOCK SETTING

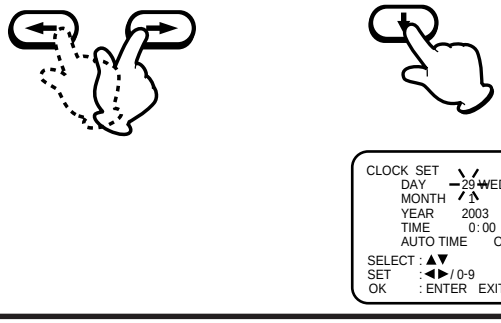
You must set the correct time and date on your unit before you make Timer recordings. You should only need to set the time manually if it was not set during Auto Set Up.

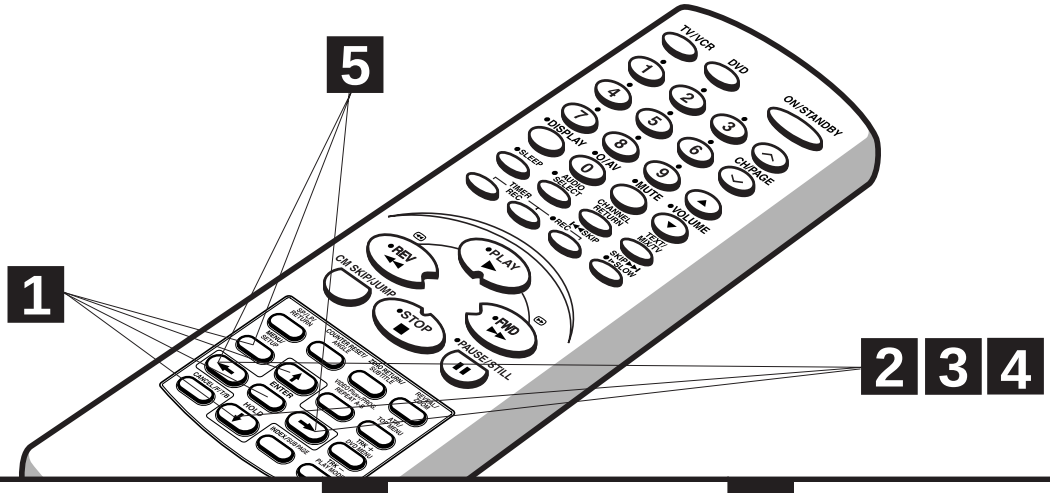
PREPARATION: Press the TV/VCR button to select TV/VCR mode.
EXAMPLE: Setting the clock to 11:30, 29th March, 2003.

1 Press the MENU button.
Press the ↑ or ↓ button to select the CLOCK SET mode, then press the ENTER button.

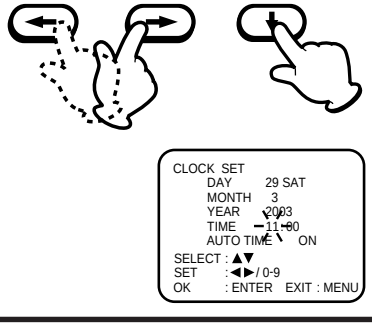


2 Press the ← or → button to select the current day, then press the ↓ button.

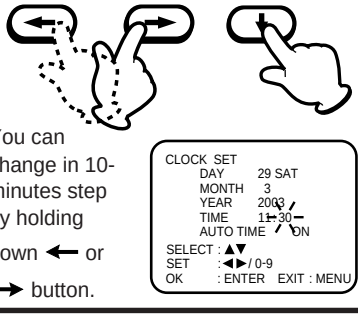




3 Set the month, year and hour in the same way as in step 2.

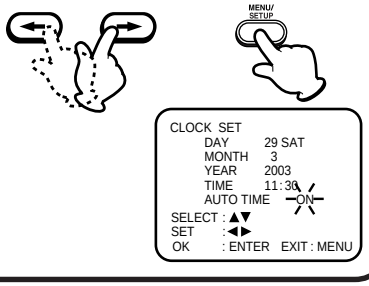


4 Press ← or → button to select current minute, then press the ↓ button.



- You can change in 10-minutes step by holding down ← or → button.

5 Press ← or → button to select ON. Your unit automatically corrects the clock setting every hour once you set AUTO TIME to ON. Press MENU button to return to normal TV screen.



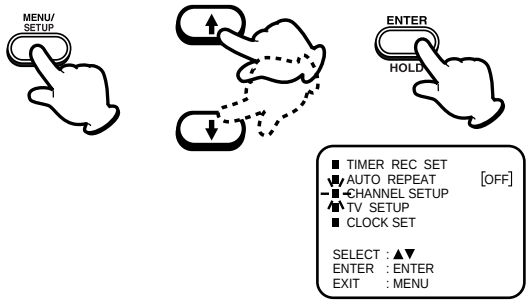
NOTE:
- During a power failure or disconnection of the mains lead the clock and all its programmed setting will remain in the memory for 30 minutes. If the power failure is longer than 30 minutes you will have to reset the present time.
- If you want to correct the digits while setting, press the ↑ button until the item you want to correct, then press the ← or → button to correct the desired setting.

MANUAL TUNING

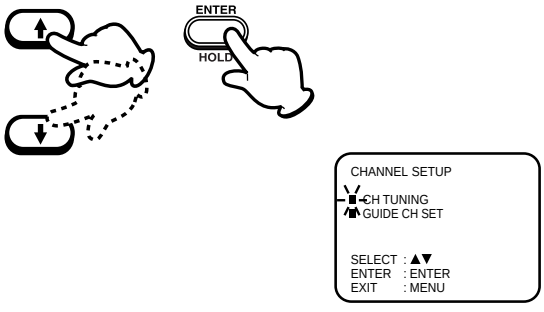
You should only need to manually tune channels on your unit if the Auto Set Up missed one station or you wish to tune.

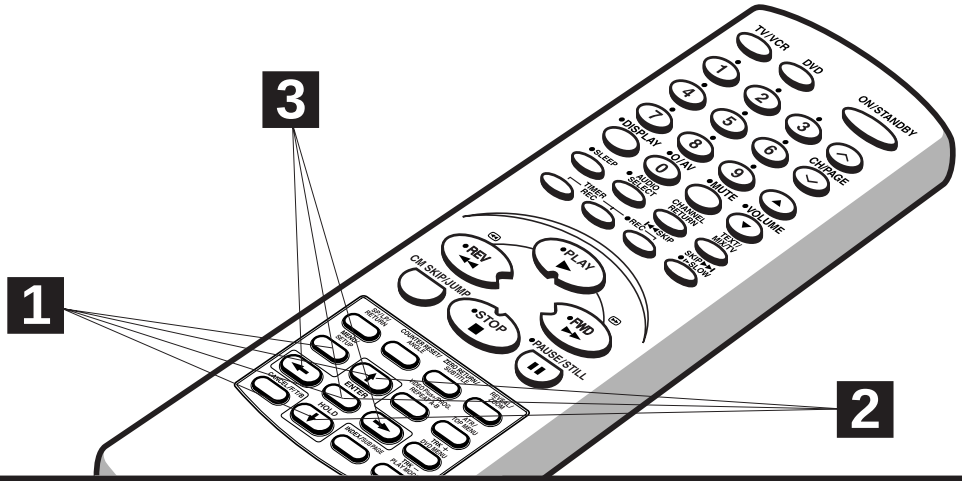
- Make sure that the MAIN POWER switch on the front panel is pushed in (ON). (The STANDBY (⏻) indicator lights up.)
- Press the ON (⏻) button to turn on the unit. (The STANDBY (⏻) indicator goes off.)
- Press the TV/VCR button to select TV/VCR mode.

1 Press the MENU button.
Press the ↑ or ↓ button to select the CHANNEL SETUP mode, then press the ENTER button.

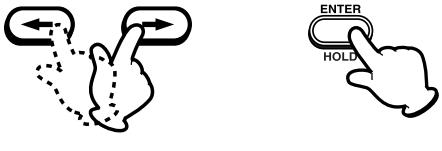


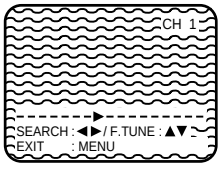
2 Press the ↑ or ↓ button to select the CH TUNING mode, then press the ENTER button.

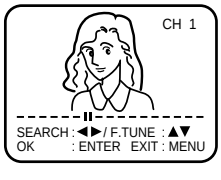




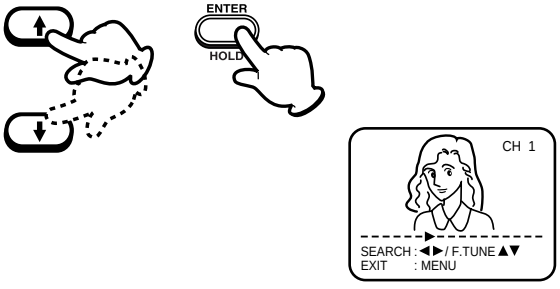
3 Press the → button to search up the waveband or ← button to search down the waveband.
Each time a station is found the search will stop.
Press ← or → button to continue searching until the station you want is found. When the cursor stops flashing press ENTER button to store the station you have selected.



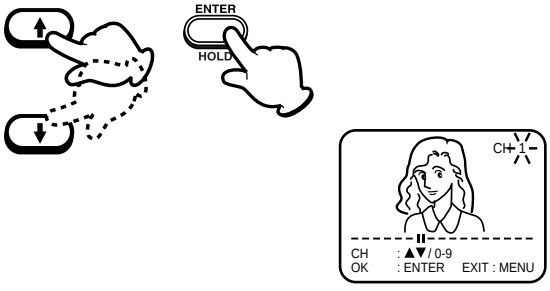


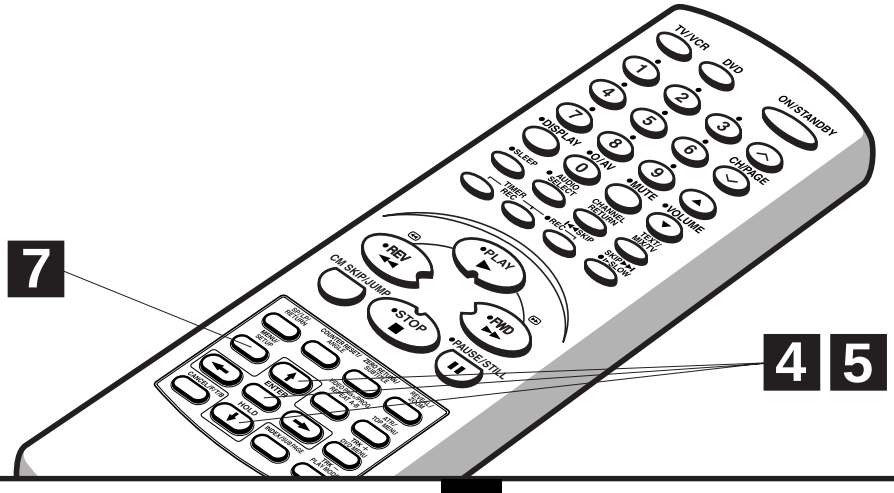


4 If you can not get a clear picture, press the ↑ or ↓ button until the picture becomes clear.
When you have a clear crisp picture store this setting by pressing ENTER button.

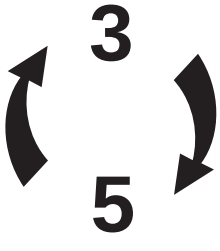


5 Press the ↑ or ↓ button to select your required channel number (1-80).
Press ENTER button to store the channel number.





6 The unit channels can be preset to different TV broadcast channels at anytime simply repeat steps 3-5.



7 When all required stations have been set, press the MENU button repeatedly to return to normal TV screen.

To skip a channel

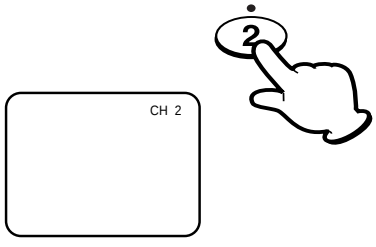
If you wish to skip an unwanted channel when using CH/PAGE ∧ or ∨ button, press CANCEL button when the channel is displayed.
To cancel the skip function, select the channel with the number buttons then press CANCEL button.

1 Press the ON button
Then press The TV/VCR button to select TV/VCR mode.

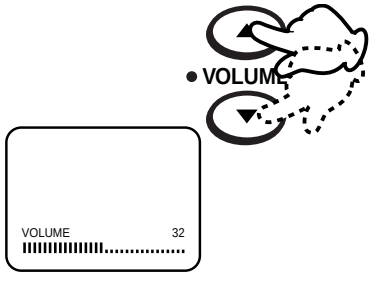
2 Press the Direct Channel Selection buttons.

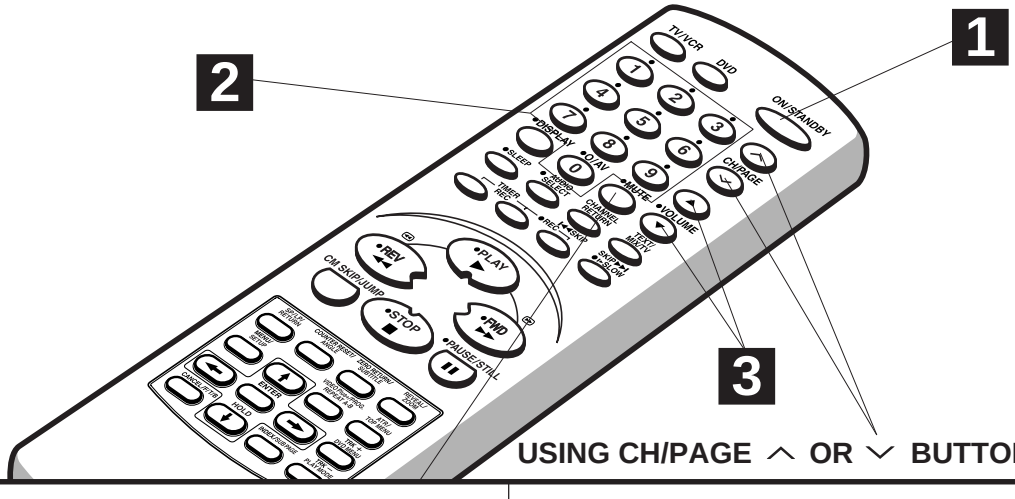
1-9: Press one of keys 1-9 as required.

10-80: Press the two digits in order from left to right.



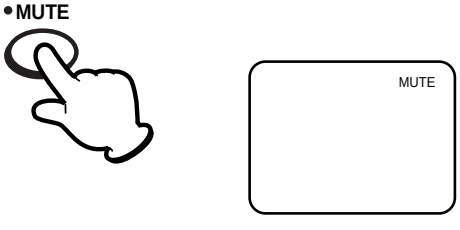
3 The VOLUME can be adjusted to a desired level by pressing the VOLUME ▲ or ▼ button.
The VOLUME control is represented by a green bar on the screen.





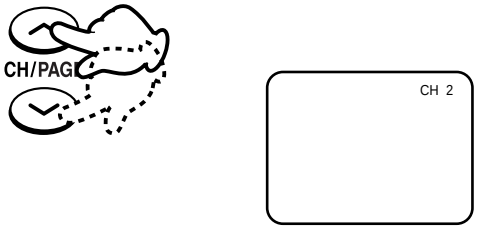
MUTE

To cut off the sound, press this button once. The unit will be silenced and the symbol "MUTE" will appear on the screen. The muting can be released by pressing the MUTE button again or the VOLUME ▲ / ▼ buttons.



USING CH/PAGE ⌃ OR ⌄ BUTTON

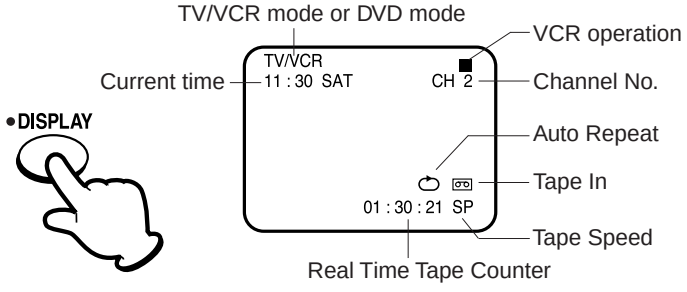
Press and release the CH/PAGE ⌃ or ⌄ button.
For channels to change properly, they must be tuned into the unit memory.



NOTE: If the station being viewed stops broadcasting, the TV will shut off after 15 minutes.

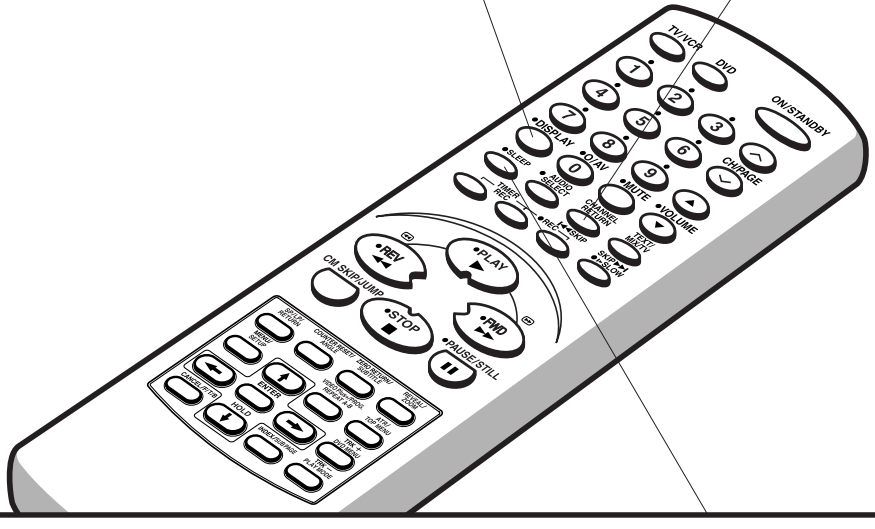
DISPLAY

Press the DISPLAY button. The current time, channel number, real time tape counter, tape speed and VCR operation will be indicated. Press the DISPLAY button again to remove the call display.



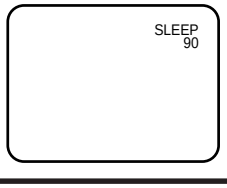
CHANNEL RETURN

This button allows you to go back to the last channel selected by pressing the CHANNEL RETURN button. Press this button again to return to the last channel you were watching.



SLEEP

To set the TV to turn off at a set time, press the SLEEP button on the remote control. The clock will count down 10 minutes each time the button is pressed in the order of 120, 110.....20, 10, 0. After the sleep time is programmed, the display will disappear and will reappear every 10 minutes. To confirm the sleep time setting, press the SLEEP button once and the remaining time will be a momentarily displayed. To cancel the sleep time, press the SLEEP button repeatedly until the display turns to 0.



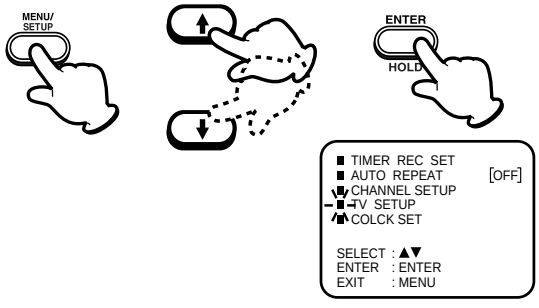
NOTE: If the SLEEP button is pressed when the unit is the REC mode, the clock will count down and the picture will shut off at the set time, but the recording continues.

PICTURE CONTROL ADJUSTMENTS

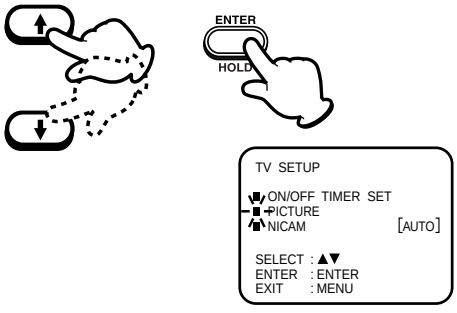
The picture setting have been factory adjusted under optimum signal reception. However, conditions may not be the same in your area. After tuning in the unit, allow it to warm up for a few minutes. If the picture is not to your liking, make the following adjustments using the remote control.

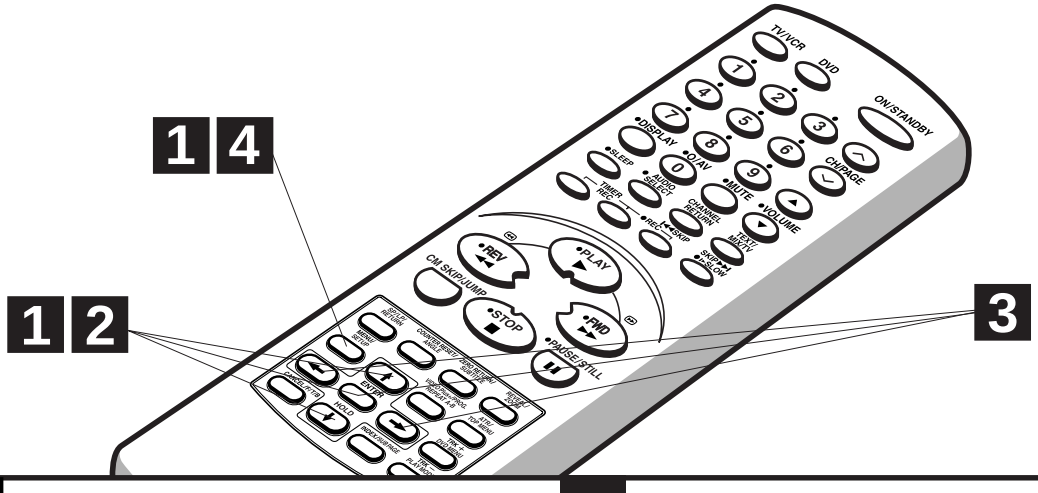
PREPARATION: Press the TV/VCR button to select TV/VCR mode.

1 To adjust the picture, press the MENU button. Press the ↑ or ↓ button to select the TV SETUP mode, then press the ENTER button.

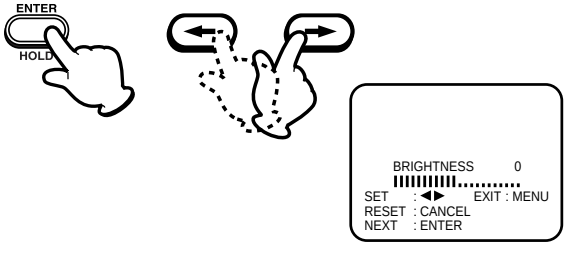


2 Press the ↑ or ↓ button to select the PICTURE mode, then press the ENTER button.





3 Press the ENTER button until your desired PICTURE mode appears eg. brightness, contrast, colour, sharpness. Then press the ← or → button to adjust the level of the BRIGHTNESS (or CONTRAST/COLOUR/SHARPNESS).



4 After finishing the adjustment, press the MENU button repeatedly to return to normal TV screen.

- For the CONTRAST, COLOUR, and SHARPNESS adjustments, perform the same way as the BRIGHTNESS one.

NOTES:

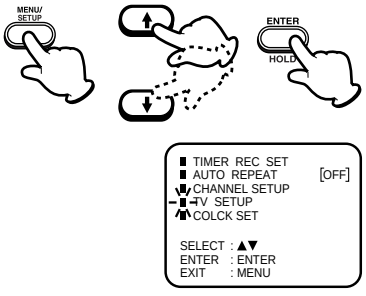
- To resume the normal picture adjustment, press the CANCEL button, while in the picture mode menu.
- The picture settings can only be adjusted by using the ← or → button and ENTER button when they are displayed on the screen.

TO SET THE ON TIMER

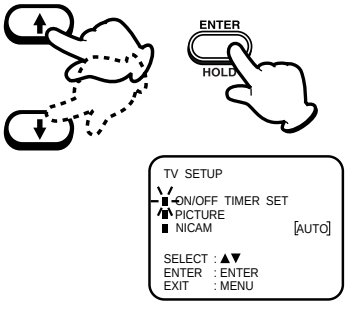
This feature allows you to have the TV automatically turn "ON" at predetermined time. If you programme the ON TIMER once the timer will turn "ON" the TV at the same time and to the same channel on the selected day(s).

PREPARATION: Press the TV/VCR button to select TV/VCR mode.
EXAMPLE: Turning on the TV to channel 3 at 7:45, MONDAY-FRIDAY.

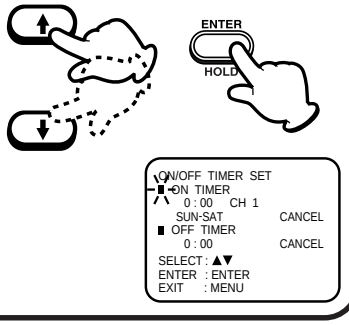
1 Press the MENU button. Select the TV SETUP mode using the ↑ or ↓ button, then press the ENTER button.

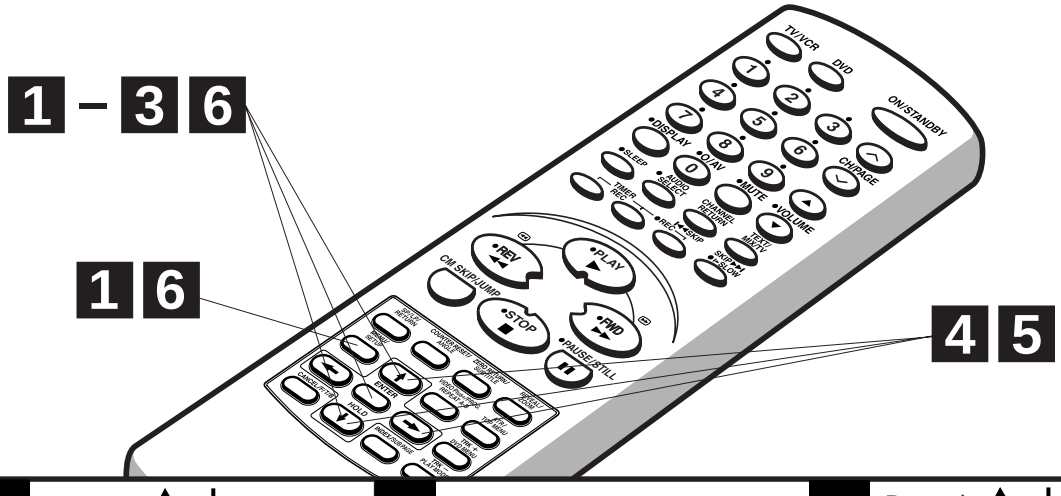


2 Press the ↑ or ↓ button to select the ON/OFF TIMER SET mode, then press the ENTER button.

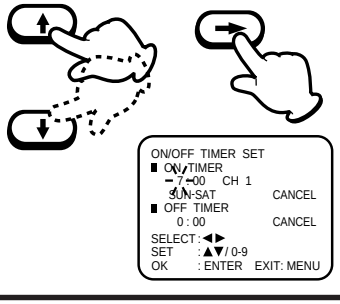


3 Press the ↑ or ↓ button to set the ON TIMER option, then press the ENTER button.

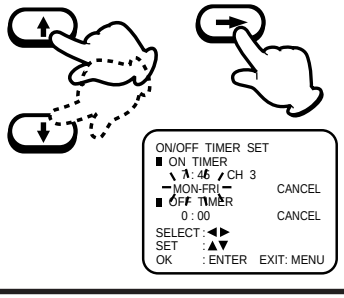




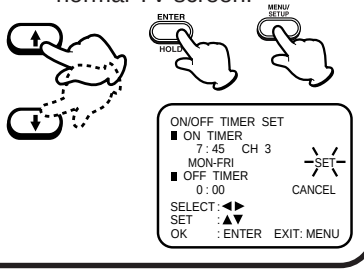
4 Press the ↑ or ↓ button to set the desired hour, then press the → button.



5 Set the desired minute, channel and daily or weekly timer date as in step 4, then press the → button.



6 Press the ↑ or ↓ button to select the SET mode, then press the ENTER button. Press the MENU button repeatedly to return to normal TV screen.



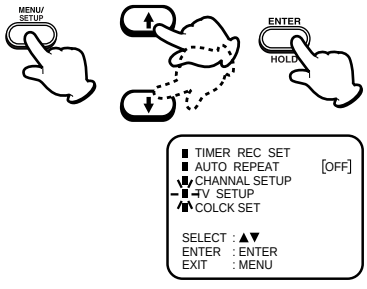
NOTE:
- The TV will automatically turn off approximately 1 hour later after the ON TIMER turns on the TV. If you wish to continue watching the TV, press any button to cancel the one hour automatic shut off. This shut off feature prevents the TV from playing continuously if no OFF TIMER is set.
- To cancel the ON TIMER function; To cancel ON TIMER, follow above steps 1-6, then press the ↑ or ↓ button to select the CANCEL position. Press the MENU button to return to the TV.
- After setting the ON TIMER, "▮" of the OFF TIMER will flash on and off. If you wish to set the OFF TIMER, press the ENTER button then follow the steps 3-5 on page 18.

TO SET THE OFF TIMER

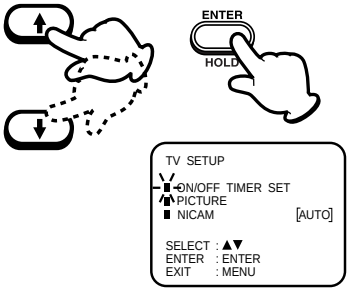
This feature allows you to have the TV turn "OFF" automatically at a predetermined time. If you programme the OFF TIMER once, the TV will be automatically turned off at the same time daily.

PREPARATION: Press the TV/VCR button to select TV/VCR mode.
EXAMPLE: Turning off the TV at 8:30.

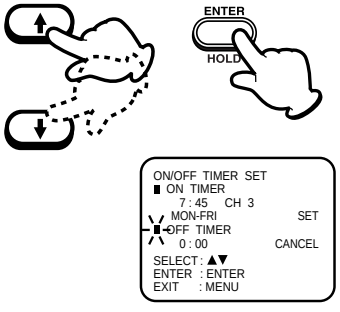
1 Press the MENU button. Select the TV SETUP mode using the ↑ or ↓ button, then press the ENTER button.

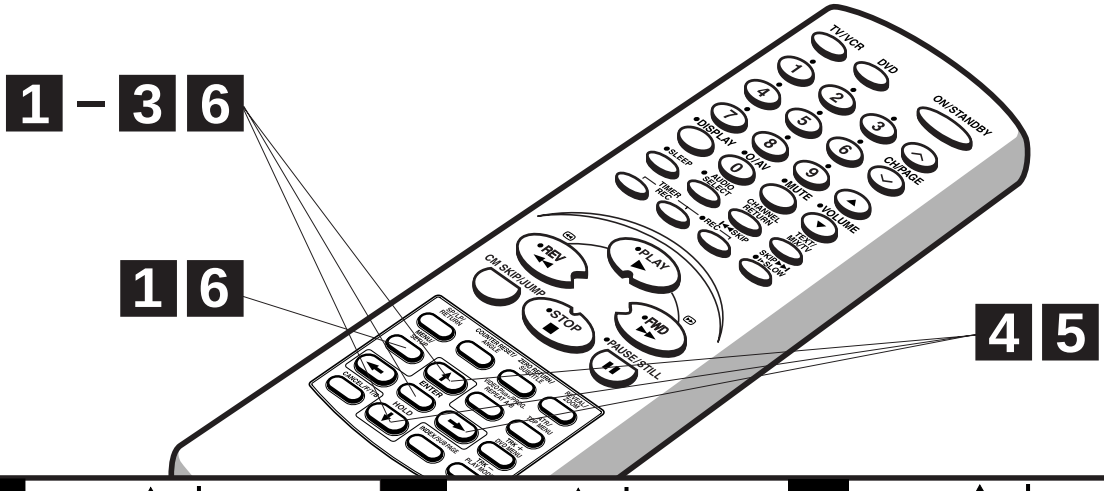


2 Press the ↑ or ↓ button to select the ON/OFF TIMER SET mode, then press the ENTER button.

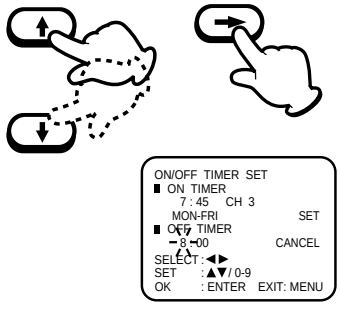


3 Press the ↑ or ↓ button to set the OFF TIMER option, then press the ENTER button.

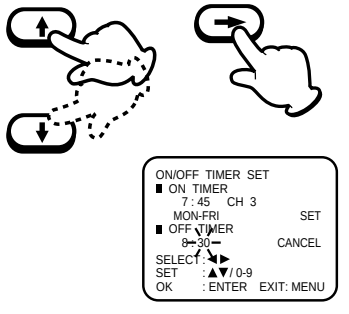




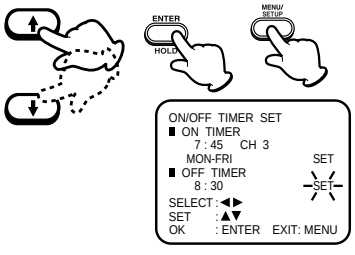
4 Press the ↑ or ↓ button to set the desired hour, then press the → button.



5 Press the ↑ or ↓ button to set the desired minute, then press the → button.



6 Press the ↑ or ↓ button to select the SET mode, then press the ENTER button. Press the MENU button repeatedly to return to normal TV screen.



NOTE:
- If a station being viewed stops broadcasting, the TV will automatically shut itself off after 15 minutes.
- To cancel the OFF TIMER function:
  To cancel OFF TIMER, follow above step 1-5, then press the ↑ or ↓ button to select the CANCEL position. Press the MENU button to return to the TV.
- To confirm the ON/OFF TIMER:
  Press the PROGRAM button repeatedly to indicate the programmes on the screen.

LOADING AND UNLOADING THE VIDEO CASSETTE TAPE

Use only video cassette tapes marked VHS .

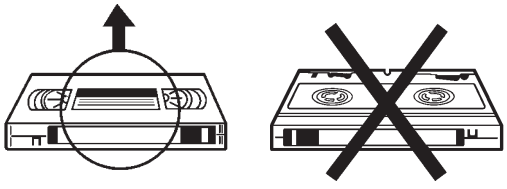
PREPARATION: Press the TV/VCR button to select TV/VCR mode.

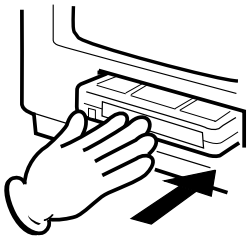
LOADING

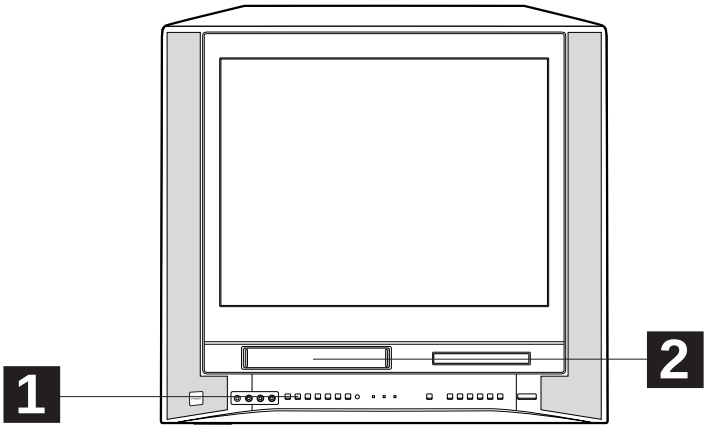
Push the centre of the tape until it is automatically inserted.

AUTOMATIC POWER ON AND PLAY
When loading a cassette tape without the erase prevention tab intact, the unit will turn on and playback will start immediately.

Insert the cassette with its labelled side facing you.
An inverted cassette cannot be inserted.

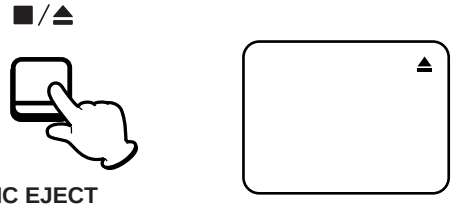






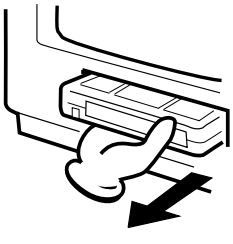
UNLOADING

1 To unload a video cassette, press the ■/⏏ (STOP/EJECT) button on the unit twice. The first press will stop the tape in any mode. The second press will eject the tape.



AUTOMATIC EJECT
When the unit is automatically rewinding the tape and reaches its end (AUTO REWIND), the tape will be ejected automatically (See NOTE on page 21).

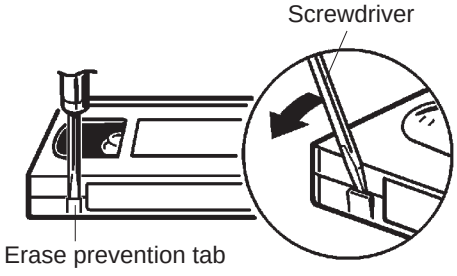
2 Pull the cassette out.



NOTE: • Always eject the tape when not in use.
• The cassette can be ejected even if the ON button is OFF.

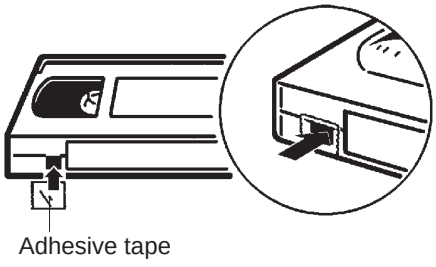
TO PREVENT ACCIDENTAL ERASURE

After recording, break off the erase prevention tab if you do not wish to record over the tape.



TO RECORD AGAIN

Cover the hole with adhesive tape.
Be careful the tape does not extend past the edges of the cassette housing.



TAPE SPEED AND MAXIMUM RECORDING/PLAYBACK TIME

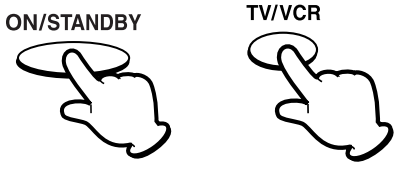
TAPE SPEED	VIDEO CASSETTE TAPE					
	E-300	E-240	E-180	E-90	E-60	E-30
SP (Standard Play)	5 hours	4 hours	3 hours	1-1/2 hours	1 hour	30 minutes
LP (Long Play)	10 hours	8 hours	6 hours	3 hours	2 hours	1 hour

PLAYBACK

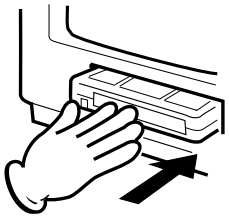
To play a pre-recorded cassette tape.

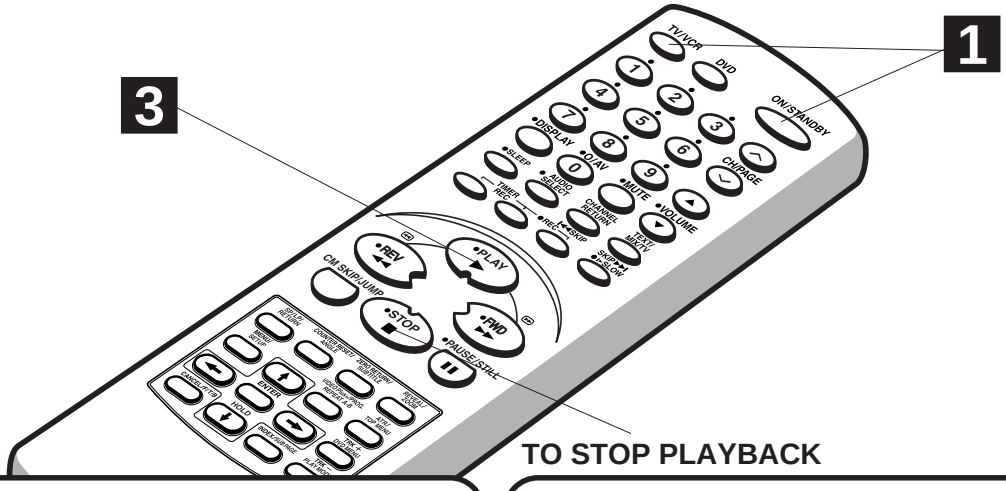
TO START PLAYBACK

1 To turn "ON" the power of the unit, press the ON button.
Press the TV/VCR button to select TV/VCR mode.



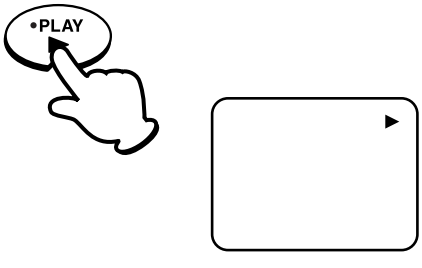
2 Load a pre-recorded tape (When loading a cassette tape without the erase prevention tab, playback will start automatically).



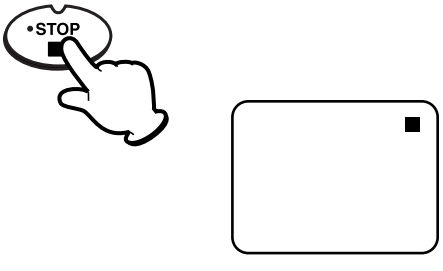


TO STOP PLAYBACK

3 Press the PLAY button. Playback will start.
" ▶ " will appear on the screen.



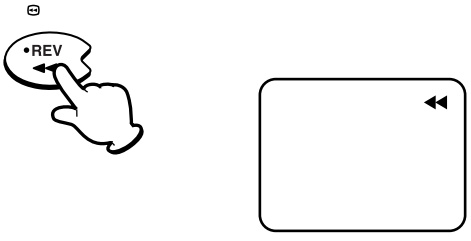
Press the STOP button.
" ■ " will appear on the screen.



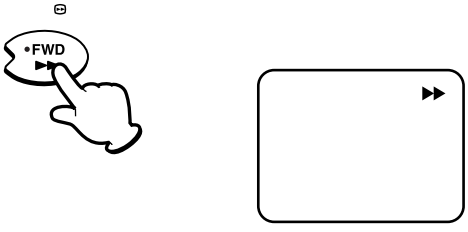
NOTE:
AUTO REWIND FEATURE:
This unit will automatically rewind and eject the tape when the tape has ended.

TO REWIND OR FORWARD THE TAPE RAPIDLY

Press the REV button when in the STOP mode.
" ◀◀ " will appear on the screen.

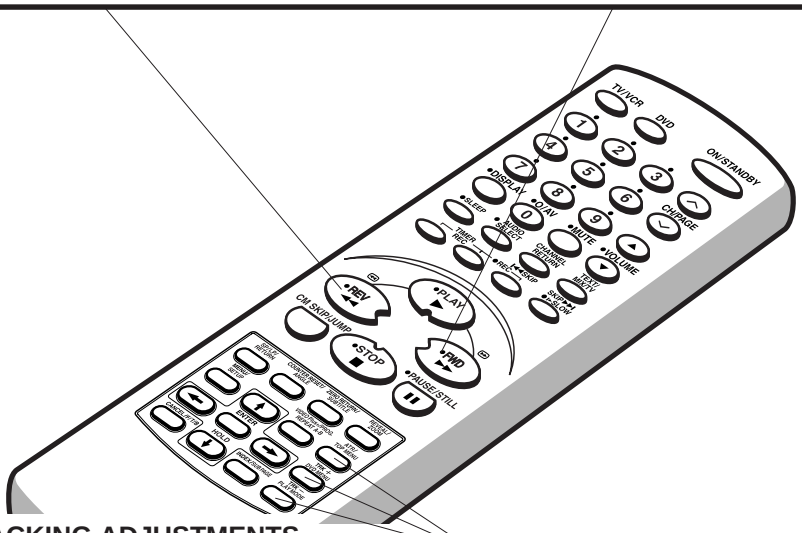


Press the FWD button when in the STOP mode.
" ▶▶ " will appear on the screen.



FORWARD/REVERSE PICTURE SEARCH

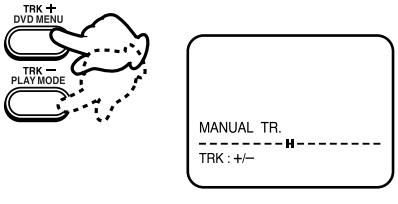
If you want to see the tape program during REV(FWD)mode, press and hold the REV(FWD) button.
The backward(forward) visual search picture will be seen on the screen. Release the button to return to the REV(FWD) mode.

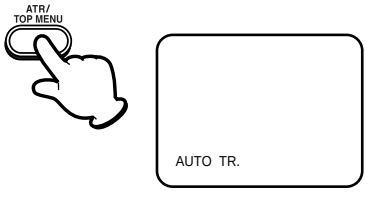


DIGITAL AUTO TRACKING ADJUSTMENTS

When a tape is played, the Digital Auto Tracking system automatically adjusts the tracking to obtain the best possible picture. If noise bars appear during playback, adjust the tracking manually as follows:

- Press the TRK+ or – button to obtain the best possible picture. "MANUAL TR." will appear for 4 seconds on the screen.
  To revert to automatic tracking, press the ATR button. "AUTO TR." will appear for 4 seconds on the screen.





SPECIAL PLAYBACK

TO VISUALLY SEARCH FOR DESIRED POINTS

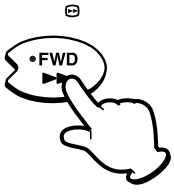
When either the FWD or REV button is pressed in the PLAYBACK mode, the speed search picture will appear. When pressed twice the search picture will increase in speed. Speed search times depend upon the speed used (SP or LP) during recording. To rewind or fast forward a tape, press the STOP button, and then press the REV or FWD button.

SPEED SEARCH TIMES

TAPE SPEED		PICTURE SEARCH SPEED	
		PRESS ONCE	PRESS TWICE
PAL	SP (Standard Play)	5 X	7 X
	LP (Long Play)	7 X	13 X
NTSC	SP (Standard Play)	3 X	5 X

Press the REV button once or twice in the PLAYBACK mode.

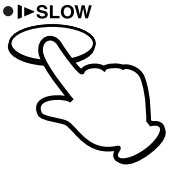
Press the FWD button once or twice in the PLAYBACK mode.



To return to playback, press the PLAY button.

SLOW MOTION

1 Press the SLOW button in the PLAYBACK mode.
Playback will proceed at 1/5 normal speed. You can change the Slow Motion speed by pressing the button repeatedly.
The speed of Playback will change from 1/5 to 1/30 normal speed.



2 To return to normal playback, press the PLAY button.

STILL PICTURE

1 Press the PAUSE/STILL button in the PLAYBACK mode.

To prevent damage to the tape, STILL playback is automatically resumed to the PLAY mode after 5 minutes.

2 To continue the normal playback, press PLAY button.

NOTE:
- The audio output is muted during SPEED SEARCH and STILL.
- A few noise bars will appear on the picture during SPEED SEARCH.
- It is normal for the picture to be less sharp in the STILL mode.

FRAME ADVANCE

Press the PAUSE/STILL button repeatedly in the Still picture playback. The Frame by Frame picture appears.

To return to normal playback, press the PLAY button.

CM SKIP

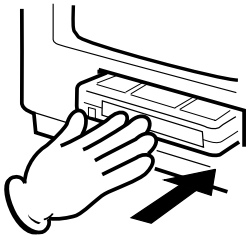
Press the CM SKIP button in the PLAY mode. The unit will search forward through approximately 30 seconds of the tape (e.g. unwanted commercial time) for each press of the CM SKIP button (maximum six presses) and then resume normal playback.

For example: 1 press: 30 seconds of tape
2 press: 60 seconds of tape
3 press: 90 seconds of tape

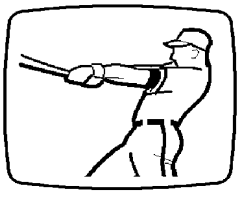
NTSC TAPE PLAYBACK

Your unit can playback Video tapes recorded in the NTSC Colour System (TV system usually used in America and Japan) on PAL 60Hz TV (Colour system used in the United Kingdom).

Load a NTSC recorded tape (When loading a cassette tape without an erase prevention tab, playback will start automatically).

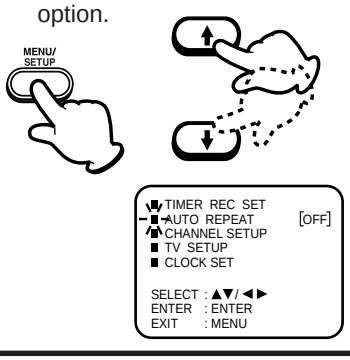


To play the NTSC tape press the PLAY button. Your unit will playback Video tapes recorded using NTSC Standard play, Long play (LP) and Super Long play (SLP). However there will be a deterioration in sound quality in the Long play and Extended play modes.

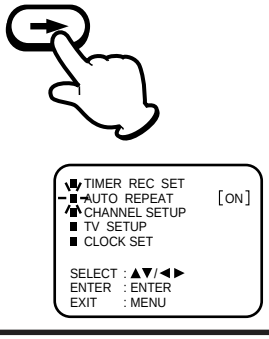


TO WATCH A TAPE REPEATEDLY

1 Press the MENU button. Press the ↑ or ↓ button to select the AUTO REPEAT option.



2 Press the → button to select the ON position.

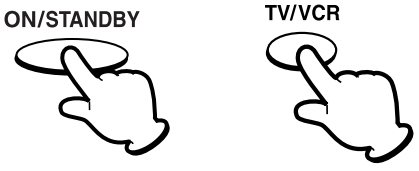


3 Press the MENU button to return to normal TV screen. If you press the PLAY button, the unit will repeat playing the video tape until the repeat mode is canceled.

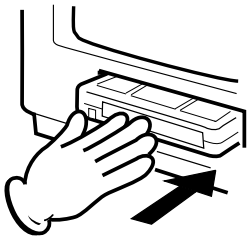
NOTE: To cancel repeat mode, follow above steps 1 and 2, then press the → button to select the OFF position. Press the MENU button to return to the TV.

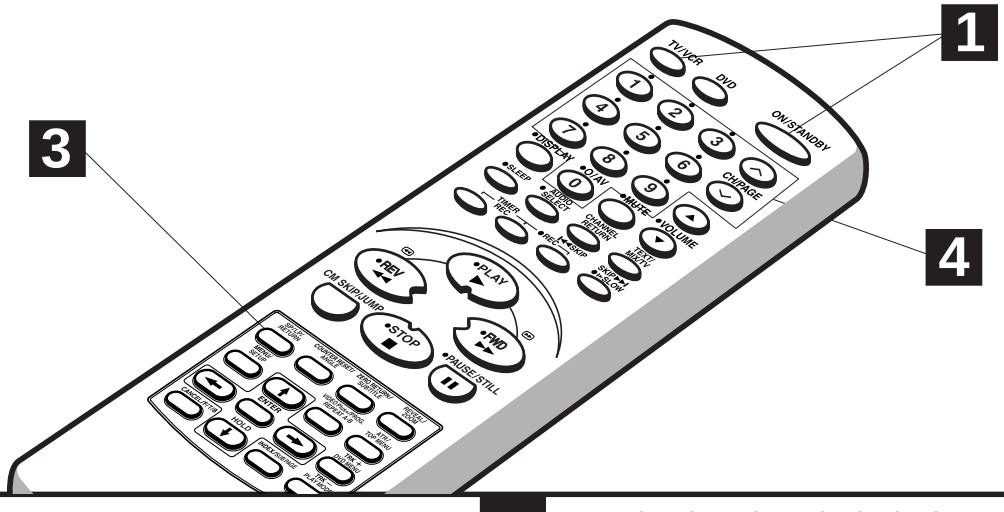
RECORDING ONE PROGRAMME WHILE WATCHING ANOTHER

1 To turn "ON" the unit, press the ON button. Press the TV/VCR button to select TV/VCR mode.



2 Load a cassette tape with the erase prevention tab intact.

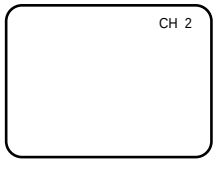




3 Press the SP/LP button to select the desired tape speed SP or LP.

4 Press the Direct channel selection buttons or CH/PAGE ∧ or ∨ to select the channel to be recorded (Example: Channel 2).

OR

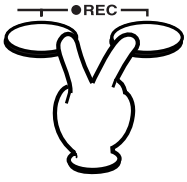


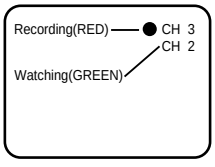
NOTE: • If the power is switched off during recording by the ON/STANDBY button on the unit or the remote control, the TV section shuts off and the VTR section continues to record.

TO STOP RECORDING

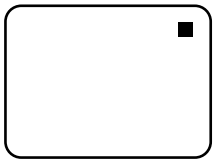
5

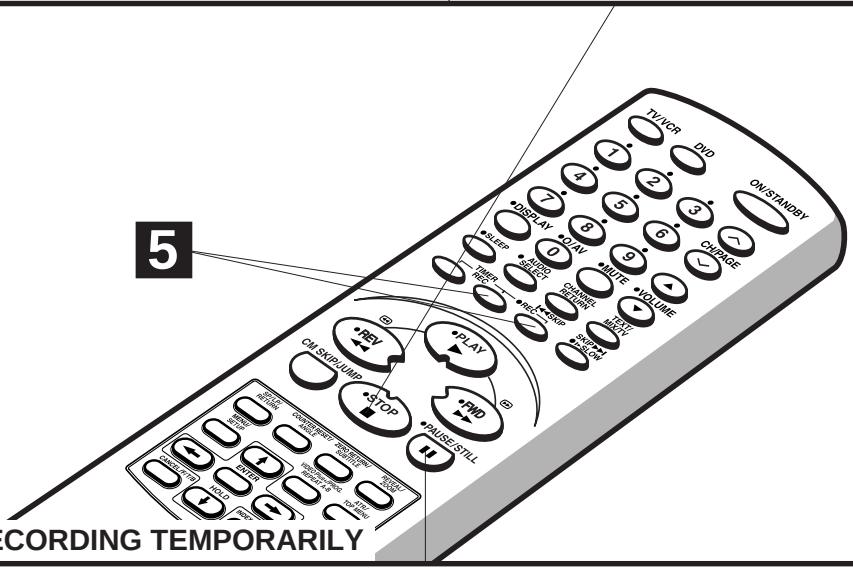
Press the REC buttons.
" ● " and the channel number will appear on the screen and the REC indicator will light.
While the unit is recording the one programme, another programme can be seen on this unit.
After the recording, select the TV channel you want to watch.





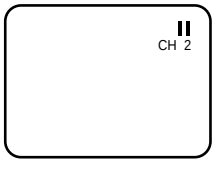
Press the STOP button to stop recording.
" ■ " will appear on the screen.





TO STOP RECORDING TEMPORARILY

Press the PAUSE/STILL button to stop recording of unwanted material. "❚❚" will appear on the screen and the REC indicator will blink on and off.
Press the button again or press the REC buttons to continue the recording.



NOTE:
- To prevent damage to the video head and video tape the pause function will stop the VTR operation after about 5 minutes.

NOTE:
AUTO REWIND FEATURE:
This feature is disabled during OTR and TIMER REC.
- If the tab has been removed, the tape will eject whenever REC is pressed.

GUIDE CH SETTING FOR VIDEO PLUS+®

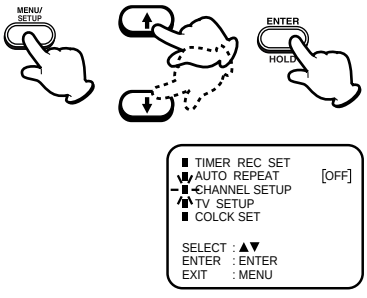
The TV stations must be stored according to the tuning guide at right, otherwise the VIDEO Plus+ feature will not work. If for any reason you did not select channels BBC1, BBC2, ITV, CH4, CH5 and Satellite in channel positions 1 through to 6 respectively, you must set each VIDEO Plus+ channel number (GUIDE CH) manually.

GUIDE CHANNEL TABLE

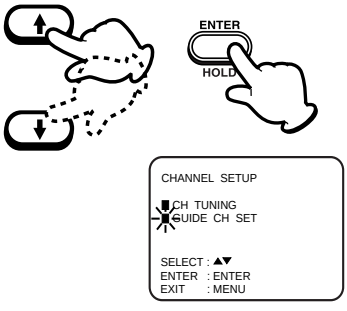
TV STATION	GUIDE CH
BBC1	1
BBC2	2
ITV	3
CH4	4
CH5	5
Satellite	6

Example: Satellite channel has been incorrectly stored on channel 8 of your VCR.

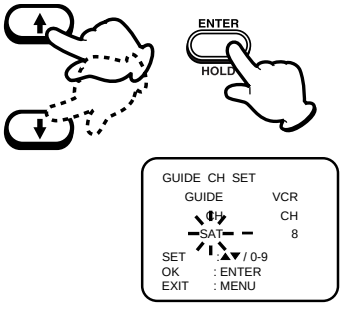
1 Press the MENU button. Press ↑ or ↓ button to select the CHANNEL SETUP mode. Then press the ENTER button.

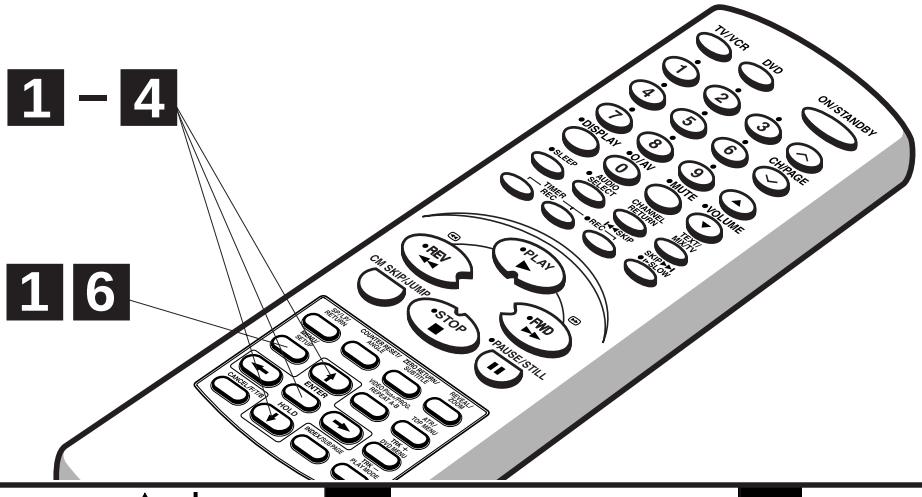


2 Press ↑ or ↓ button to select the GUIDE CH SET mode. Then press the ENTER button.



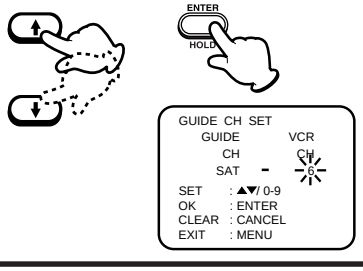
3 Enter "SAT" with ↑ or ↓ button. Then press the ENTER button.





4 Enter "6" with ↑ or ↓ or 10 numbered buttons. Then press the ENTER button.

If you have connected your satellite using the scart socket, you must select "AV" for the VCR CH number.



5 For other Codes, repeat steps **3** and **4**.

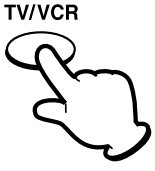
6 Press the MENU button repeatedly until the TV picture appears.

VIDEO PLUS+ TIMER RECORDINGS

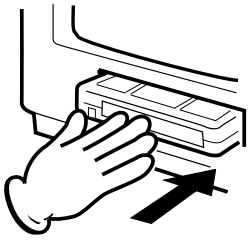
Your unit is equipped with VIDEO Plus+. This “automatic” system greatly simplifies timer programming because you do not have to enter the usual information such as date, channel, start and end times. By keying in the PlusCode for the TV programme you wish to record (listed in most TV guides) all the relevant information is set for you.

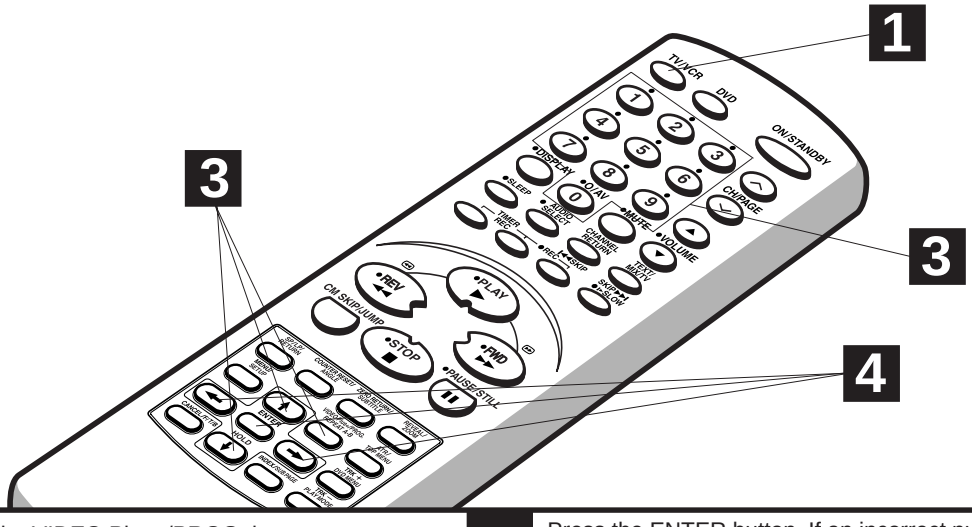
VIDEO Plus+ and PlusCode are registered trademarks of Gemstar Development Corporation.
The VIDEO Plus+ system is manufactured under license from Gemstar Development Corporation.

1 To turn "ON" the unit, press the ON button.
Press the TV/VCR button to select TV/VCR mode.



2 Load a video cassette with the erase prevention tab intact.

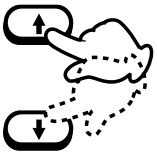




3 Press the VIDEO Plus+/PROG. button.
The VIDEO Plus+ screen will appear on the TV screen.
Enter the PlusCode for the TV programme you wish to record using the numbered buttons on the remote control.

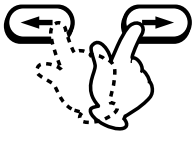
Press the ↑ or ↓ button to select Once, Daily or Weekly.

Single programme	Once
Every day	Daily
Same day every week	Weekly



PLUSCODE NO. 57378----
▶ ONCE
DAILY
WEEKLY
PLUSCODE NO. : 0-9
SELECT : ▲▼
CLEAR : CANCEL
OK : ENTER
EXIT : VIDEO PLUS+

4 Press the ENTER button. If an incorrect number is entered the word ERROR will be displayed and you will have to re-enter the correct number. The VIDEO Plus+ screen on the TV will show the date, start and end times for your recording.
The first time you use VIDEO Plus+ on each channel it is necessary to press the ← or → button to confirm the correct channel. The unit will remember this for future recordings. If you want to change the setting, press the ↑ or ↓ button to select the item and press the ← or → button to change to the desired setting.

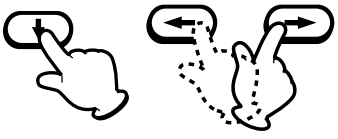


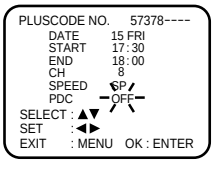
PLUSCODE NO. 57378----
DATE 15 FRI
START 17:30
END 18:00
CH ----
SPEED SP
PDC OFF
SELECT : ▲▼
SET : ◀▶ / 0-9
EXIT : MENU OK : ENTER

VIDEO Plus+ recordings allow you to easily program your unit so that it will record at preset times. The built in timer allows unattended recording of up to 8 programmes within 1 month.

5

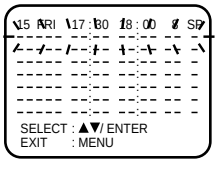
Press the ↓ button to select the SPEED.
Press the ← or → button to select either standard (SP) or Long (LP) play.
Press the ↓ button to confirm the speed.
Press the ← or → button to select PDC ON or OFF (please see the explanation of PDC at the top of page 31).

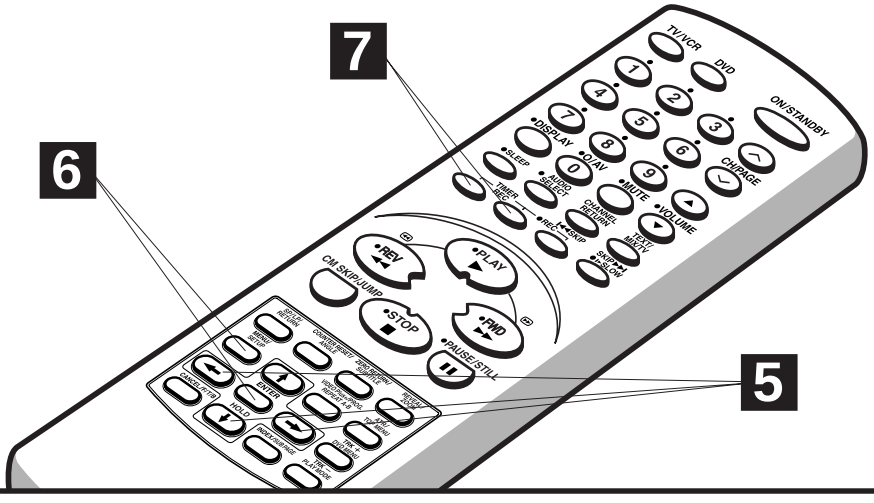




6

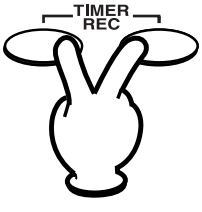
When you have finished setting your recording press the ENTER button to complete your programming.
You can confirm your programming. If you wish to set further VIDEO Plus+ recordings, press the VIDEO Plus+/PROG. button three times to return to the VIDEO Plus+ screen and repeat stages 3-6.
Press the MENU button twice to remove the display.

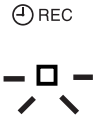




7

Press the TIMER REC buttons to set your timer recording. Your unit will go into timer record mode.
The TIMER REC indicator will light on the front of the unit.
If you do not put your unit into timer record mode your recording will not take place.
Your TIMER RECORDING is now set.
At the set time your unit will record your programme then go back into timer record mode.





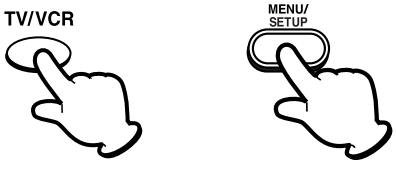
TIMER RECORDING

Timer recording can be programmed on screen with the remote control. The built-in timer allows automatic unattended recording of up to 8 programmes within 1 month.

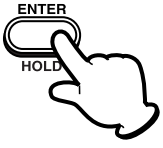
- Load a cassette tape with the erase prevention tab intact. The unit will automatically turn on.
- Make sure that the clock shows the present time correctly.

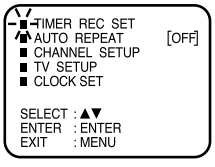
EXAMPLE: Programme a timer recording for 13:00-14:30, channel 3, on timer programme number 1 (Tape speed : LP).

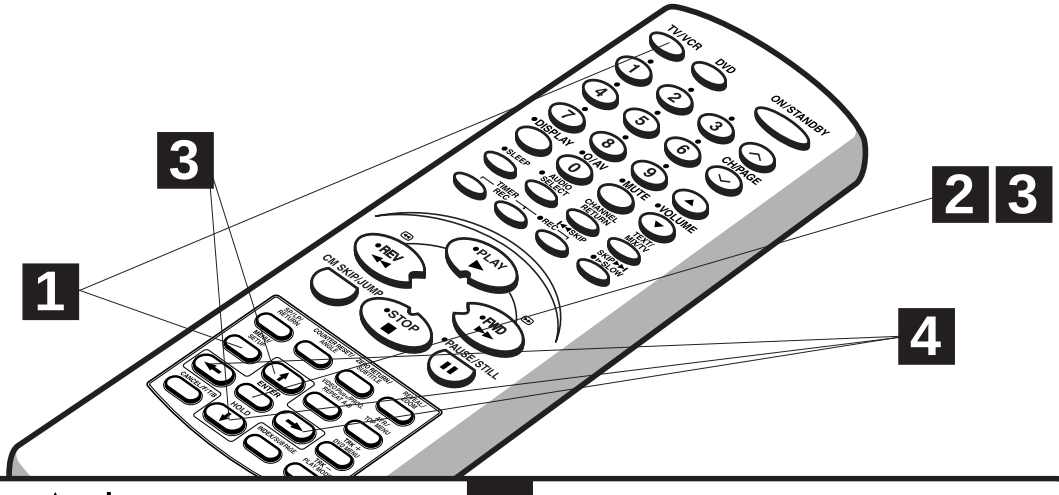
1 Press the TV/VCR button to select TV/VCR mode.
Press the MENU button.



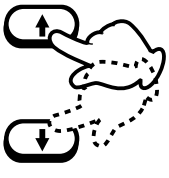
2 Check the TIMER REC SET option is selected, then press the ENTER button.

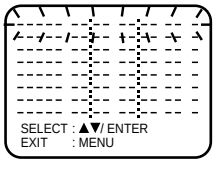




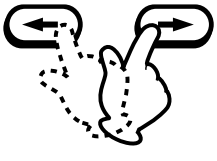


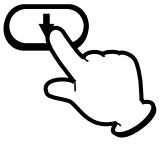
3 Press the ↑ or ↓ button to select one of the program lines, then press the ENTER button.

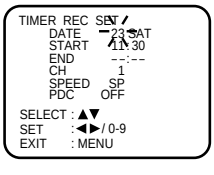




4 Press the ← or → button to select the desired date or every day or every week setting, then press the ↓ button.



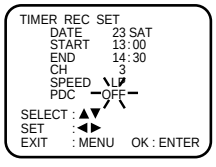




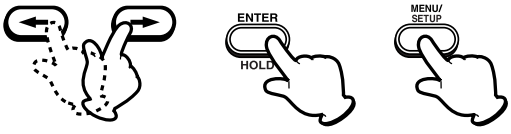
NOTE:
- If programming is performed without a tape in the unit, or with a tape without an erase prevention tab, the Timer Recording is not possible. If a tape without an erase prevention tab is in the unit, the tape will be ejected.
- To record from the external equipment press the ← or → button repeatedly until "AV1 (from 21 pin SCART socket on the rear)" or "AV2 (from Video/Audio In jacks on the front)" appears when setting the channel in step 5.

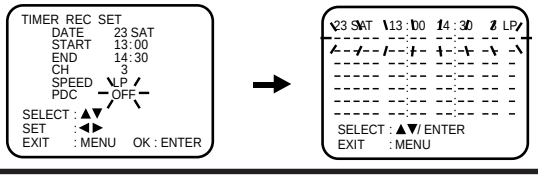
PDC stands for Programme Delivery Control system. A PDC signal is broadcast at the beginning and end of most TV programmes. This lets your unit know if a TV programme is running early or late.
PDC is default OFF on this unit. If you switch PDC ON then a recording will not start until your unit receives the PDC signal. Without PDC your recording would have started and ended as programmed time.

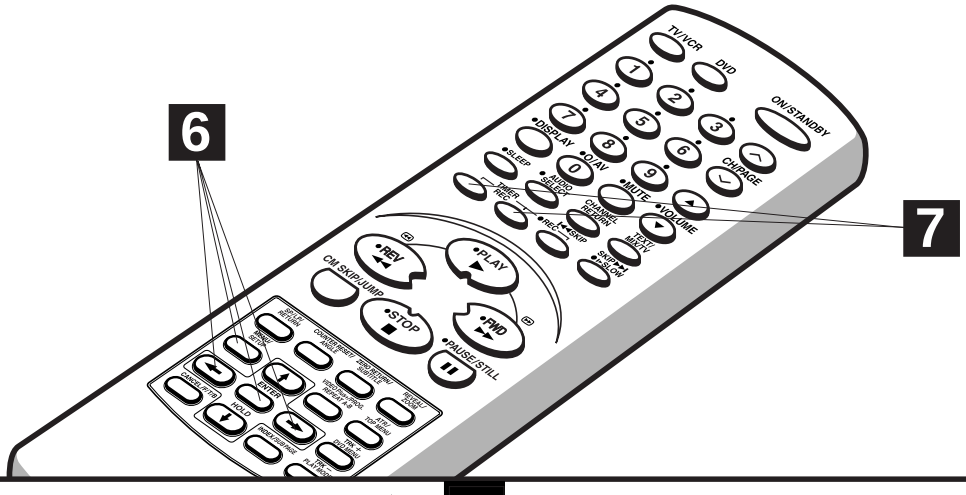
5 Set the start time, end time, channel and tape speed as in step 4.



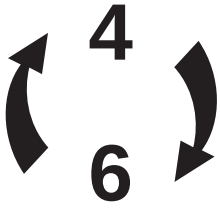
6 Press the ← or → button to select PDC ON or OFF. When you have finished setting all your recordings, press ENTER.



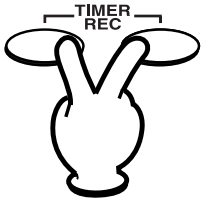




To set the timer for another programme, press the ↑ or ↓ button to select another programme line, then press the ENTER button.
Repeat steps 4 to 6 to set the second programme.



7 Press the TIMER REC buttons. The TIMER REC indicator will light. The Timer is programmed, when the programmed time is reached, the recording is automatically started.



To cancel timer recording, press the buttons again and TIMER REC indicator will go out.

NOTE:
- The VTR section cannot be used while the TIMER REC indicator is lit. If you want to use the VTR operation, press the TIMER REC buttons to deactivate the timer.
- After a power failure or disconnection of the power plug, all programmed recording setting and time display will be lost upon resumption of power if the failure is longer than 30 minutes. In this case, reset the clock (see page 11) and reprogramme any timer recordings.
- If you want to correct the digits while setting, press the ↑ button until the item you want to correct, then press the ← or → button to correct the desired setting.

OTHER FUNCTIONS FOR TIMER RECORDING

TO SET DAILY/WEEKLY TIMER

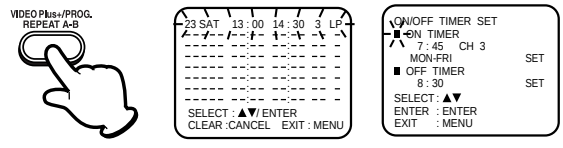
When setting the date in the step 4 on page 30, press the ← button repeatedly when the current day is displayed.
The setting changes as follows:

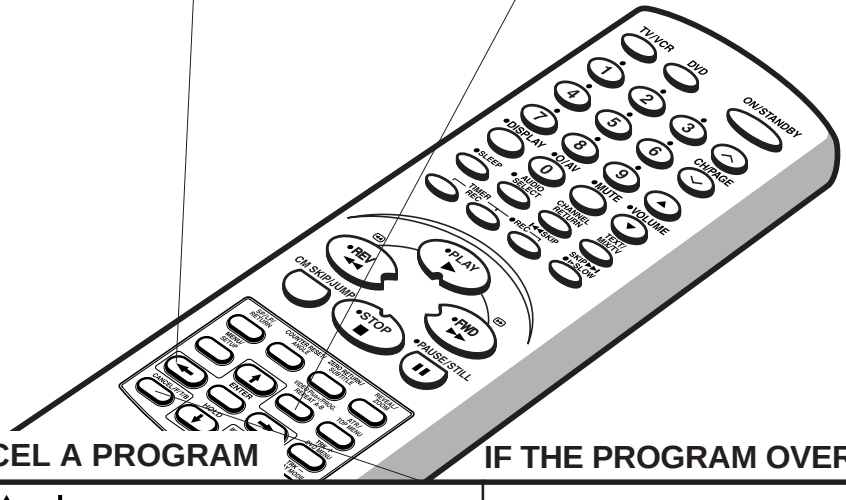
Example

The current day (Friday) → SUN-SAT (Sunday to Saturday)
↓
MON-SAT (Monday to Saturday)
↓
MON-FRI (Monday to Friday)
↓
WKL-THU (Weekly Thursday)
← WKL-WED (Weekly Wednesday)
↑
One month later minus one day

TO CONFIRM THE SETTINGS

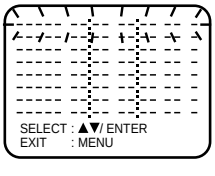
1 If the timer has been set according to stage 7 on page 31, it is first necessary to turn on the unit using the ON/STANDBY button. Press the VIDEO Plus+/PROG. button and the timer programme list is displayed, the second press shows the ON/OFF TIMER setting screen and the third press returns to normal screen. The user must remember to turn off the unit using the ON/STANDBY button in order to reset the timer.
2 If the timer has not been set, the VIDEO Plus+/PROG. button has to be pressed twice to show the timer program list, the next press shows the ON/OFF TIMER setting screen and the fourth presses returns to normal picture.





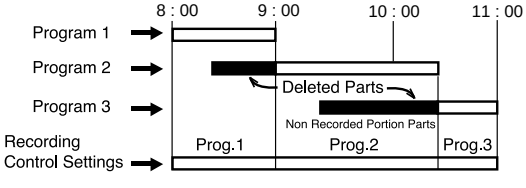
TO CANCEL A PROGRAM

Press the ↑ or ↓ button to select the TIMER REC SET option in the MENU, then press the ENTER button.
Press the ↑ or ↓ button to select the unnecessary program, and press the CANCEL button to cancel the program.



IF THE PROGRAM OVERLAPS ANOTHER

NOTE: Do not overlap programs as portions of the conflicting programs will be lost. The first recording time has priority over the next recording time as shown in the diagram.



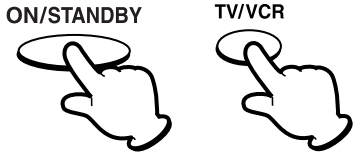
NOTE:
- The everyday/every week recording can be made continuously until the recording is canceled or the tape reaches the end.
- During timer recording, the automatic rewinding mechanism does not function.
- You can correct or cancel the programmed setting in program confirm mode.
- If you press an invalid button during timer recording (such as PLAY, STOP, REC etc), "RECORDING IN PROGRESS" will appear on the TV screen for approx. 4 seconds.

ONE-TOUCH TIMER RECORDING (OTR)

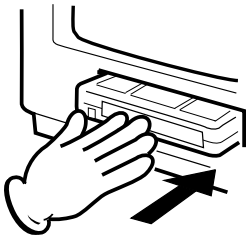
The one-touch timer recording feature provides a simple and convenient way to make a timed recording.

EXAMPLE: One-touch Timer Recording for 30 minutes.

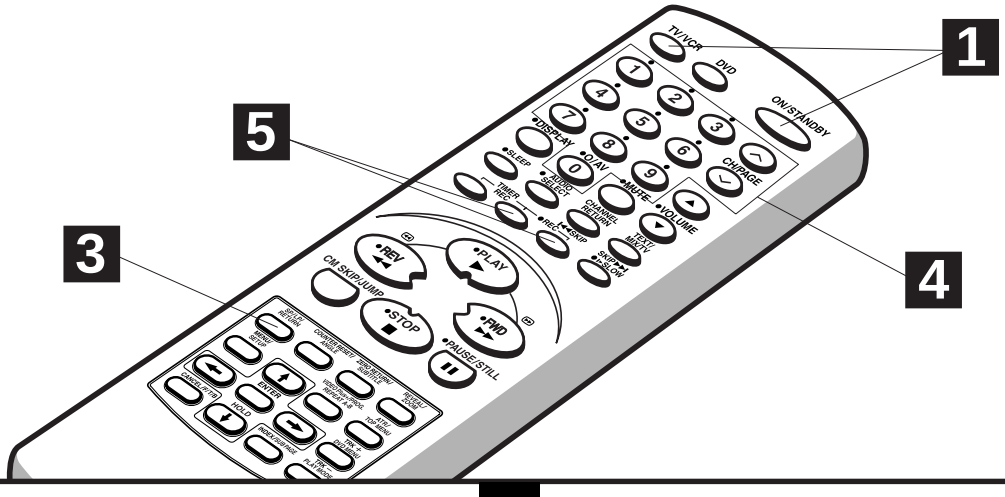
1 Press the ON button to turn on the unit.
Then press the TV/VCR button to select TV/VCR mode.



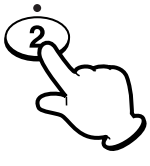
2 Load a video cassette with the erase prevention tab intact.



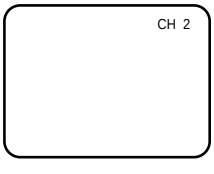
3 Press the SP/LP button to select the desired tape speed (SP or LP). SP or LP will appear on the screen.



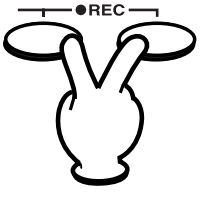
4 Press the Direct Channel Selection buttons or CH/PAGE ⌃ or ⌄ button to select the channel to be recorded (Example: Channel 2).

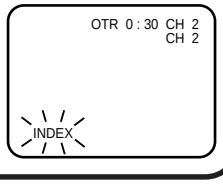


OR



5 Press the REC buttons to begin recording. Press the buttons again to stop recording after 30 minutes. Each additional press of the REC buttons will increase recording time as shown below, up to a maximum of 5 hours. “OTR” will appear on the screen.





NOTE: • Press the REC buttons to increase the time needed for recording (See the chart below).

Press	once	twice	3 times	4 times	5 times	6 times	7 times	8 times	9 times
Recording time	NORMAL REC	0:30	1:00	1:30	2:00	3:00	4:00	5:00	NORMAL REC

When the tape speed LP is selected, the recording time can be set up to 10 hours.

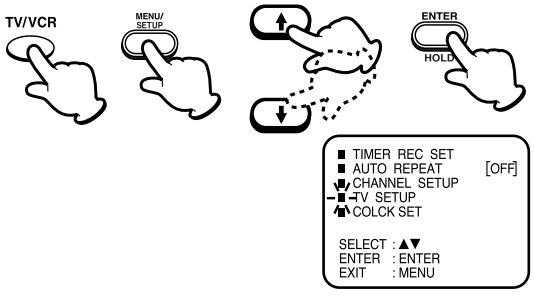
• To cancel OTR, press the STOP button.

NICAM STEREO RECORDING AND PLAYBACK

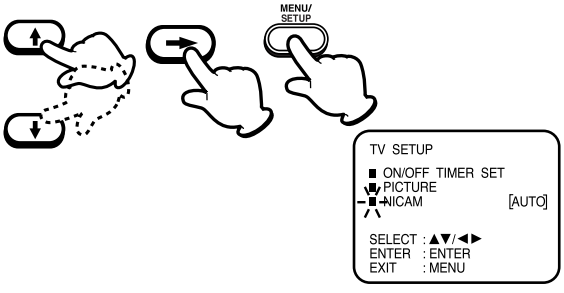
RECORDING

This unit is capable of recording sound in Hi-Fi system. NICAM STEREO broadcasts are recorded in its original sound system regardless of the setting. If you wish to record NICAM programmes, select NICAM "AUTO" as follows.
If the NICAM sound has noise, select the TV station which has noisy NICAM sound, then set NICAM to OFF.

1 Press the TV/VCR button to select TV/VCR mode. Press the MENU button. Select the TV SETUP mode using the ↑ or ↓ button, then press the ENTER button.



2 Press the ↑ or ↓ button to select the NICAM option. Then press the → button to select the AUTO position. Press the MENU button repeatedly to return to normal TV screen.



NICAM STEREO broadcast
"NICAM ST" illuminates when a NICAM STEREO broadcast signal is received.

NICAM ST

NICAM OFF
It will be displayed for the NICAM signal when the "NICAM [OFF]" is selected in menu screen.

NICAM OFF

PLAYBACK

Selection of audio channels - audio channel is selected with the AUDIO SELECT button according to the chart below.

On-screen indications (for 4 sec.)	NICAM Stereo programme	On-screen indications (for 4 sec.)	NICAM Stereo programme
STEREO	Stereo signal output from both loud-speakers.	L CH	Left channel signal output from both loudspeakers.
R CH	Right channel signal output from both loud-speakers.	MONO	Mono

Hi-Fi signal indication

It will be displayed when playing Hi-Fi video cassette tapes.

HI-FI ▶

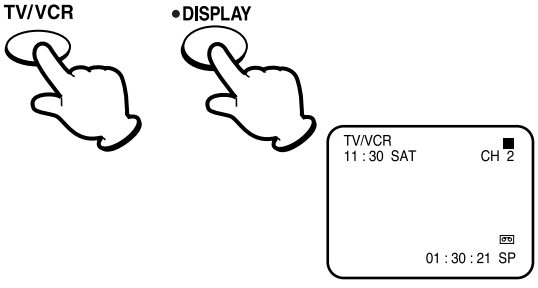
Note:
- When you play a tape recorded in mono, the sound is always played back in mono regardless of the AUDIO SELECT setting.
- If the sound is distorted when playing back the tape recorded by other Hi-Fi VTR, adjust with the TRK+ or – button.

USING THE REAL TIME TAPE COUNTER

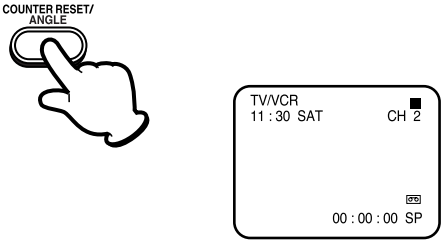
The On-Screen Real Time Tape Counter shows the tape running time in Hours, Minutes and Seconds. You can easily determine how long the tape has been running or how much time is left on the tape.

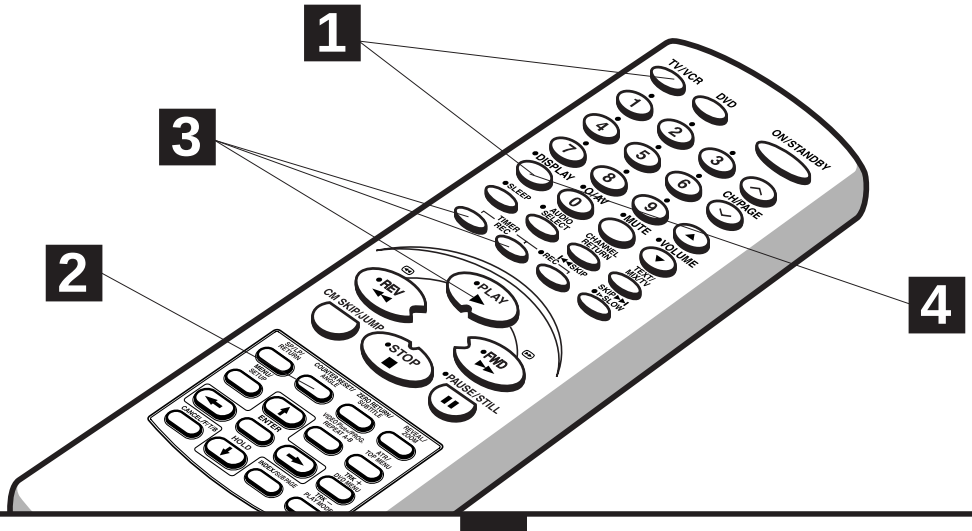
TO VIEW THE COUNTER DISPLAY

1 Press the TV/VCR button to select TV/VCR mode. Press the DISPLAY button to display the Real Time Tape counter.

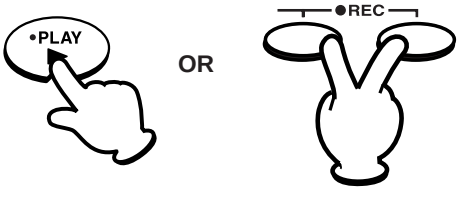


2 Press the COUNTER RESET button to set the counter to "00:00:00".

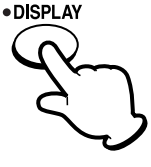




3 Press the PLAY or REC buttons to start the tape, the counter will display the passed time.



4 When you wish to make the counter disappear, press the DISPLAY button once again.

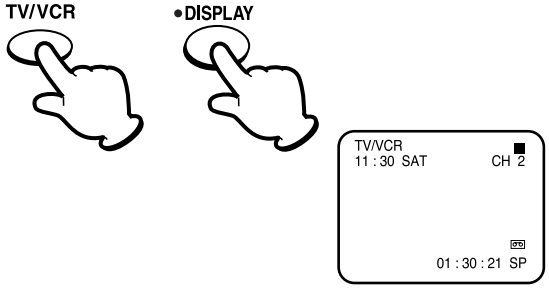


NOTE:
- If you rewind the tape from "00:00:00", a minus sign "–" will be displayed in front of the timer.
- When you load a tape, the counter will change to "00:00:00".
- The counter does not function on non-recorded (blank) sections of the tape. When you rewind, fast forward or play tapes through blank sections, the counter stops.

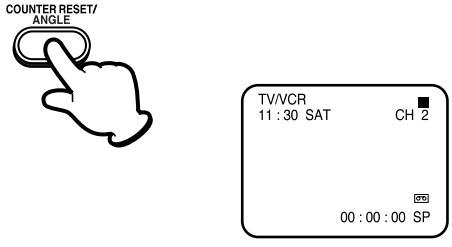
USING ZERO RETURN

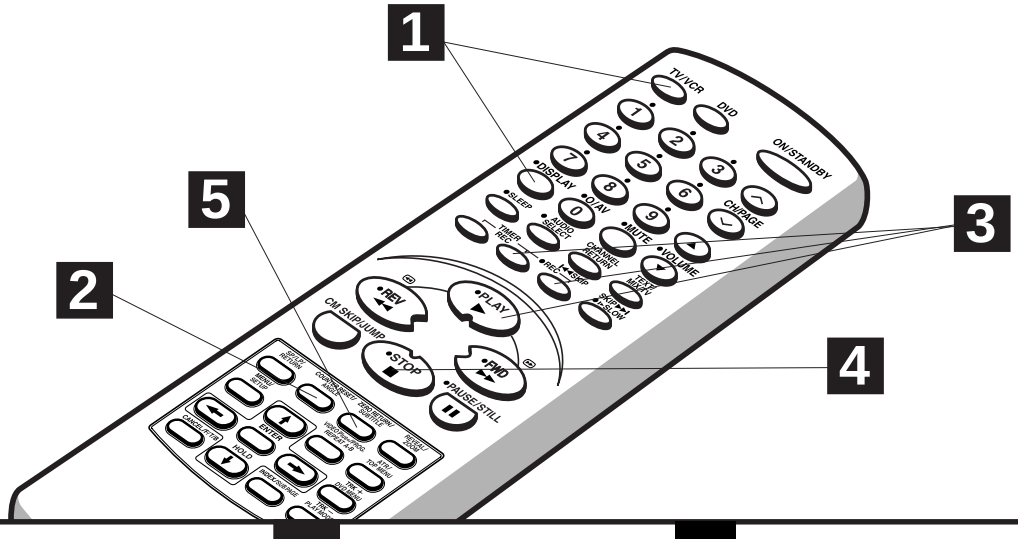
The zero return function provides a convenient method of rapidly returning to the starting point of recording or playback. The starting point can be indexed for any location on the tape by pressing the COUNTER RESET button and ZERO RETURN button.

1 Press the TV/VCR button to select TV/VCR mode. Press the DISPLAY button to display the counter.

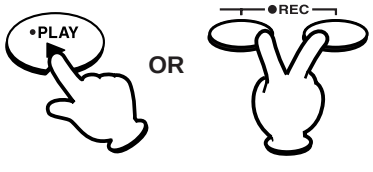


2 Before playback or recording, press the COUNTER RESET button to set the counter to “00:00:00”.

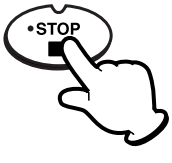




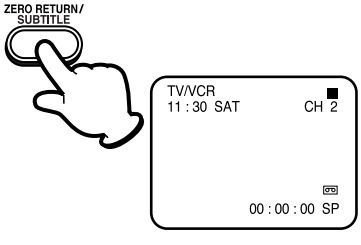
3 Begin playback or recording.



4 Press the STOP button.



5 Press the ZERO RETURN button. The tape will rewind and automatically stop at the “00:00:00” position.

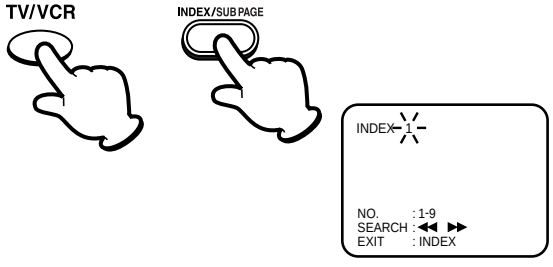


VIDEO INDEX SEARCH SYSTEM (INDEX)

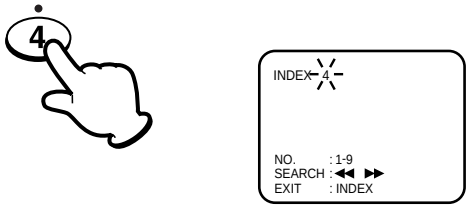
The VIDEO INDEX SEARCH SYSTEM (INDEX) enables you to locate the beginning of any recording made on the unit. The Index Search function automatically records an INDEX mark on the tape whenever a recording is initiated. This mark can easily be located by using the FWD and REV buttons.

SEARCHING FOR AN INDEX MARK

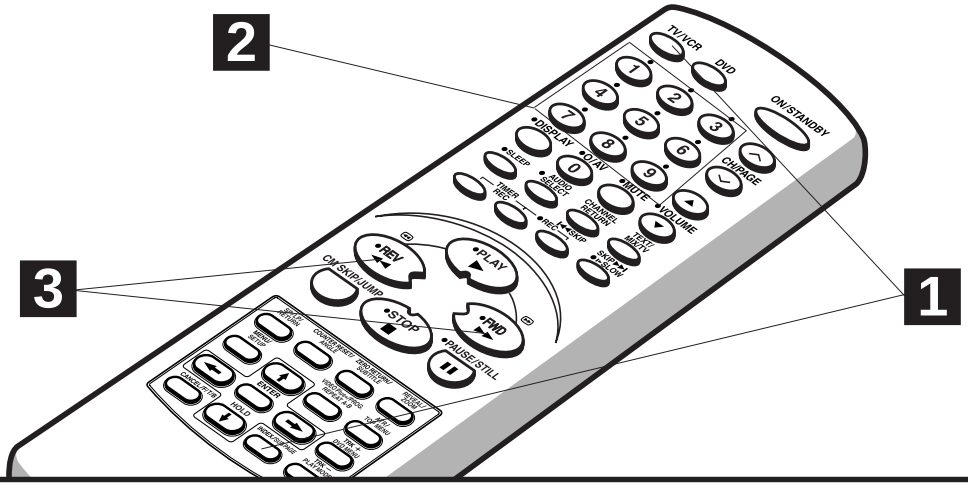
1 Press the TV/VCR button to select TV/VCR mode. To search for an index mark, or skip over a number of index marks:
Press INDEX button during stop or playback.



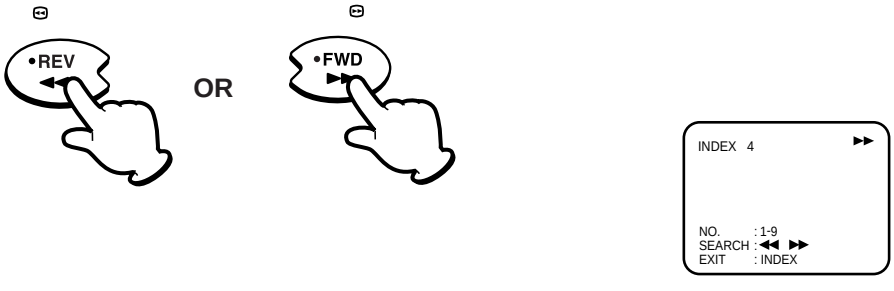
2 Select the number of INDEX marks to be skipped by using the Channel Number keys (1-9).



EXAMPLE: When the tape has four separate recorded Programmes, select 4 to go to the beginning of the 4th programme (4th index mark).



3 Press the FWD or REV button. The unit will skip over the selected number of INDEX marks and will start playback at the selected mark.

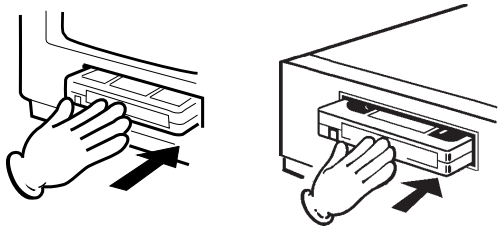


NOTE:
- When you recorded an INDEX mark at the very beginning of the tape, the mark may not be found.
- During INDEX search, the tape may stop and begin to play at a slightly different location.
- INDEX may not function properly with old or worn out video tapes.

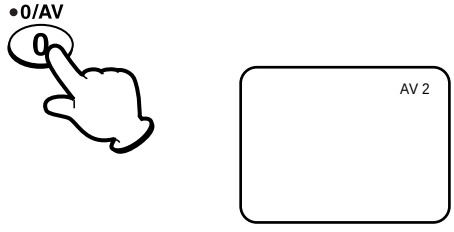
DUPLICATING A VIDEO TAPE

If you connect the unit to another VTR or VIDEO CAMERA, you can duplicate a previously recorded tape. Make all connections before turning on the power.

1 Load a blank cassette tape with the erase prevention tab intact into the recording unit. Load a previously recorded tape into the playback VTR or VIDEO CAMERA.

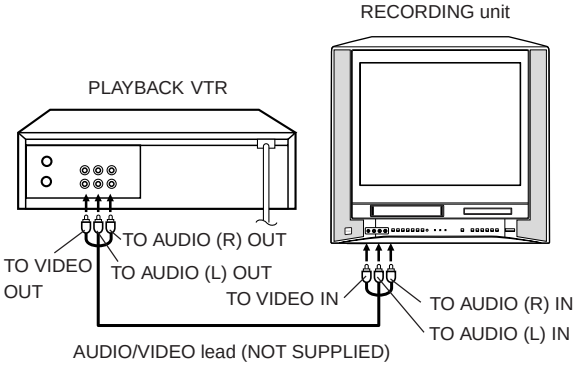


2 To select the AV channel, press the AV button until AV2 is displayed.



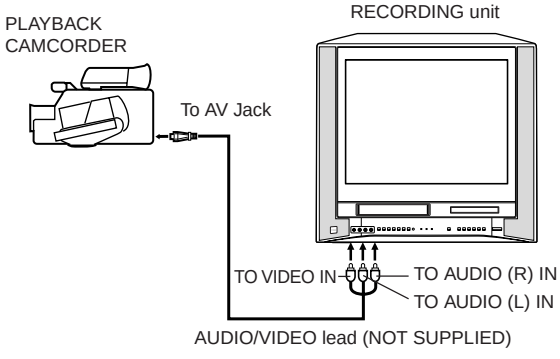
NOTE: You can also use the rear 21 pin SCART socket. Select "AV1" by pressing the AV button.

CONNECTION TO ANOTHER VTR

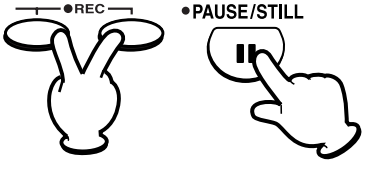


CONNECTION TO CAMCORDER

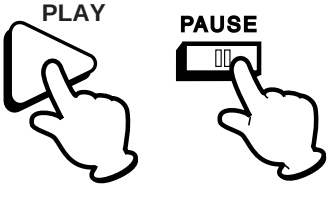
For duplicating a previously recorded tape from a camcorder, follow the camcorder manufacturer's instructions. A typical camcorder dubbing hookup is shown below.



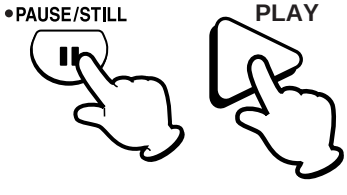
3 Press the REC buttons on the remote control of the unit, then press the PAUSE button.



4 Press the PLAY Button on the playback VTR, then press the PAUSE button.



5 Release the recording pause and still playback to begin the duplicating process.



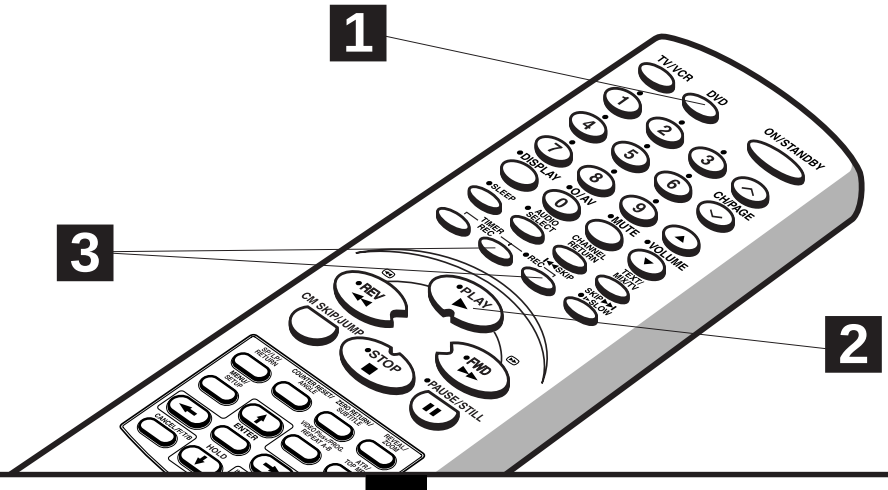
NOTE:
- It is recommended that the tape speed be set to the SP mode on the unit for best results.
- Unauthorized recording of copyrighted television programs, films, video cassettes and other materials may infringe the rights of copyright owners and be contrary to copyright laws.

DUPLICATING A DISC MATERIAL ONTO A VIDEO TAPE

With this unit it is theoretically possible to record from a DVD or Audio CD to a video tape.
If the DVD disc has a Copy-guard feature, the duplication is not possible. A symbol mark "→" will appear on the screen for approx. 4 seconds. See page 43 for more information about the DVD Disc.

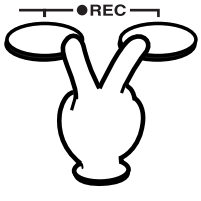
Preparation:
- Load a cassette tape with the erase prevention tab intact.
- Select the tape speed in the TV/VCR mode. (see P.25)
- Load a disc you wish to duplicate.

1 Press the DVD button to select the DVD mode.



2 Press the PLAY button to start the disc playback.

3 During disc playback, press the REC buttons.



NOTE:
- You can set the duplicating time using the OTR-function. At step 3 above press the REC buttons repeatedly until the desired duplicating time appears on the screen.(P.33)
- Unauthorized recording of copyrighted television programs, films, video cassettes and other materials may infringe the rights of copyright owners and be contrary to copyright laws.

FASTEXT

Most broadcasting stations offer the fastext in addition to their standard TV program.
The fastext offers news, weather forecast, winning Lotto numbers, the program overview and other interesting news.
The text is received page by page, as soon as you select the broadcasting station. A single page can be displayed on the screen. The pages are numbered and broadcasted one by one. Therefore you'll have to wait a certain time until the selected page is display on the screen. The page will be displayed as soon as it is broadcasted.
Certain pages can be displayed more easily by the push of one of the **FOUR COLOURED FASTEXT** buttons.

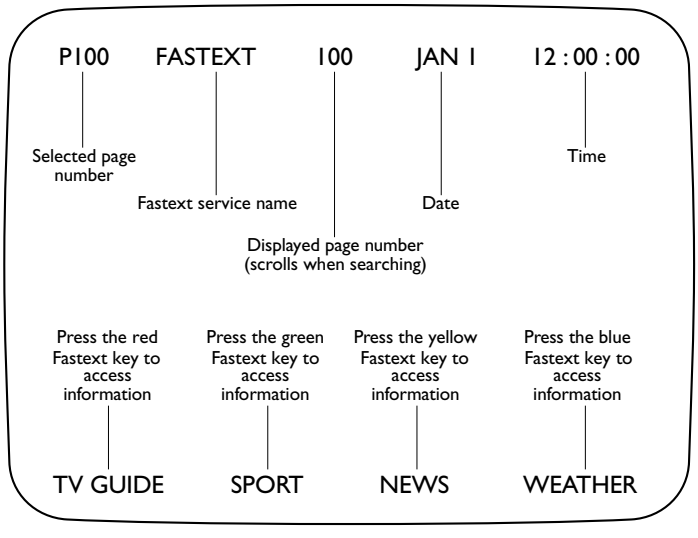
Basic operation

1 Select the broadcasting station, whose text you want to read. In order to do so, select the station's channel with the remote handset.

2 Push **TEXT/MIX/TV** button.
The first push on the **TEXT/MIX/TV** button displays Fastext.
The second push on **TEXT/MIX/TV** displays the TV program and the Fastext together (MIX).
The third push on the **TEXT/MIX/TV** button turns the Fastext off and returns to the TV program.

The first operation of the fastext normally opens the page 100 with the table of contents.

Example for a fastext page:



Select the desired fastext page from the broadcasting station's table of contents.

HOLD

Some pages hold more text, as can be displayed in only one page. The broadcasting station separates these pages into sub-pages, which are broadcasted one by one automatically. To study one sub-page thoroughly push the **HOLD** button. The HOLD-symbol will be displayed.
The associated sub-pages will appear automatically, when you push **HOLD** second time.

To call a fastext page

Leaf through the pages with the **PAGE (⌃ / ⌄) -** button (forward or backward).

Note: you will not necessarily find an existing page. for every page number you enter..E.g. you have called the page no. 116, but it will not appear on your screen. This happens because the broad casting station momentarily does not offer this page. Available page numbers you will find inside the station's table of contents (toc). (most stations offer this toc on fastextpage 100).

Enter the three-digit page number with the number buttons.
Example:
You want to display page 300.
Enter: 3 then 0 and 0.
To correct a faulty input, enter the wrong page number completely (all three digits), then enter the correct page number.

Inside the fastext mode you cannot change to another broadcasting station..
To switch to another channel, leave the fastext mode by pushing the **TEXT/MIX/TV** button.

How to call a definite sub-page

Push **SUB PAGE** button.

The screen's lower left corner will display the Fastext page number followed by **- - - - .**

To call sub-page 2 enter: **0 0 0 2** .
Your input will be displayed in the lower left corner: **0002**.
The ↑ , ↓ red or green button can be used to change the sub-page number.
It may take some time until the sub-page 2 is broadcast.
The sub-page will not be displayed before it is broadcast.

To leave the sub-page mode push SUB PAGE button again.

When you are in the sub-page mode you cannot call sub-pages from other Fastext pages. To call other Fastext pages you must leave the sub-page mode.

Magnifying

To magnify the letters push **F/T/B** button.

You can magnify either the upper or the lower half of the screen.

Each push on F/T/B buttons between the screen's upper and lower half and the full screen.
(F/T/B = Full / Top / Bottom)

REVEAL

Pushing **REVEAL** will give you the hidden answers to the questions on a Quiz-page.

Not every broadcasting station offers Quiz-pages and they are not constantly offered.

DISC

DVD discs must be Region 2 type to play on this unit.
The loaded Disc (DVD, Video-CD and Audio-CD) will be recognized automatically.
The suitable Disc-formats are: DVD, CD-R and CD-RW.
Some CD-R/RW discs may be incompatible.

Do not play DVD-ROM, DVD-Audio, CDV, CD-G or Photo CD to prevent accidental erasure of prerecorded material.

Some DVDs are copy protected and forbid dubbing on to video tape. Picture Distortion will occur. This is not a defect of this unit.

Title

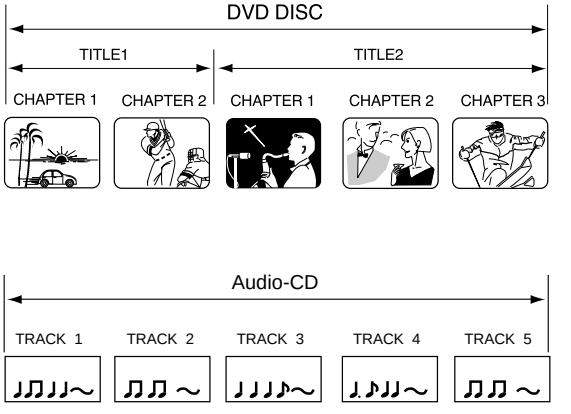
When two or more movies are recorded on a disc, the disc is divided into two or more sections. Each section is called a “TITLE”.

Chapter

The titles can be subdivided into many sections. Each section is called a “CHAPTER”.

Track

An Audio CD can contain several items. These are assigned to tracks.



Removing Disc from Case

Be sure to hold the edge of disc. Do not touch the surface of the disc. Pick up the disc gently from the case.

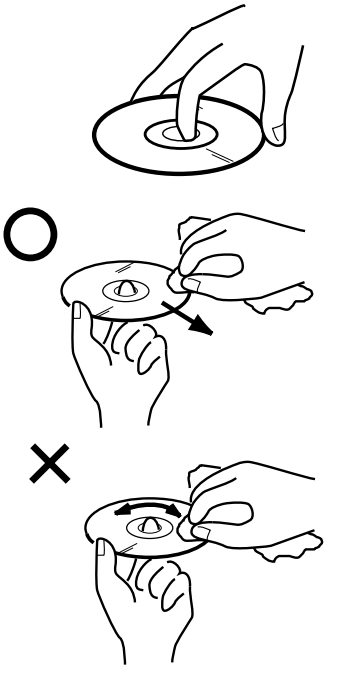
- Do not scratch the disc.
- Do not get dirt on the surface of the disc.
- Do not stick a label or adhesive tape on the disc.
- Do not drop or bend the disc.

Storing Disc

- Store the disc in the case to avoid risk of scratches, dirt or damage.
- Do not leave disc exposed to direct sunlight or in hot or humid places.

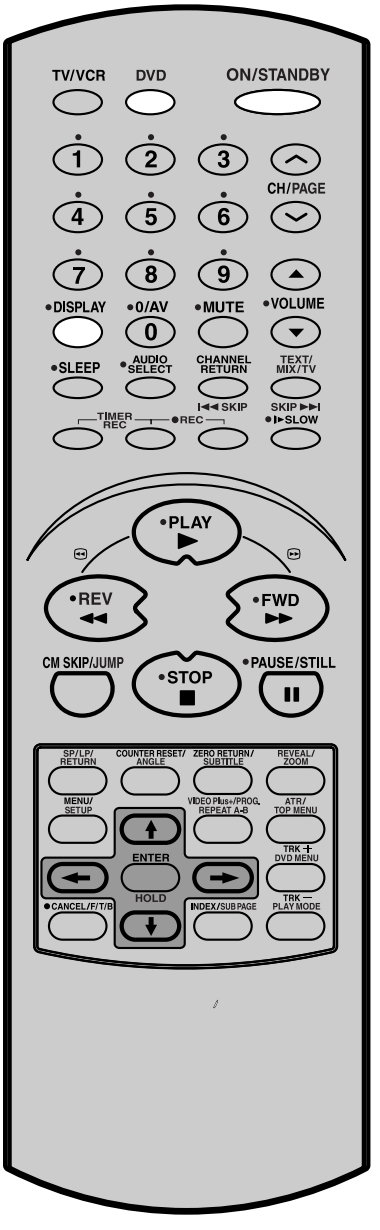
Cleaning Disc

Wipe the disc with a clean, dry cloth from center to edge.
- Do not wipe in circular direction.
- Do not use liquid or aerosol cleaners.



PREPARATION/STATUS DISPLAY OF DISC

The following pages describe the setup/operation in DVD mode.



NOTE:
If the unit does not operate properly: Static electricity can adversely affect the operation of this player. Sometimes this can be remedied by unplugging the unit for a short time, then reconnecting it.

Preparation

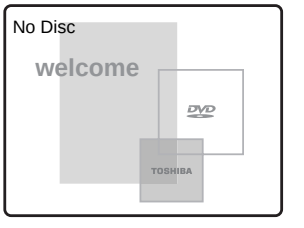
Before DVD/CD operation, please make preparations as follows.

1 Insert the AC cord plug into a standard 230~240V 50Hz AC outlet.
- If the AC cord plug is plugged in for the first time, wait for about 5 seconds before pressing **ON/STANDBY**.

NOTE: When connecting to other equipment, unplug the unit from the AC outlet.

2 Press **ON/STANDBY** on the remote control to turn on the unit.
- Every time you press **ON/STANDBY**, the unit starts from TV mode.
- When using an amplifier, switch on the amplifier.

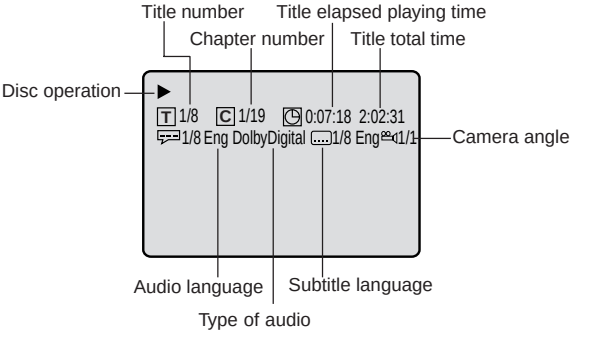
3 Press **DVD** to select DVD mode. The DVD startup screen will appear on the screen.



Status display of disc

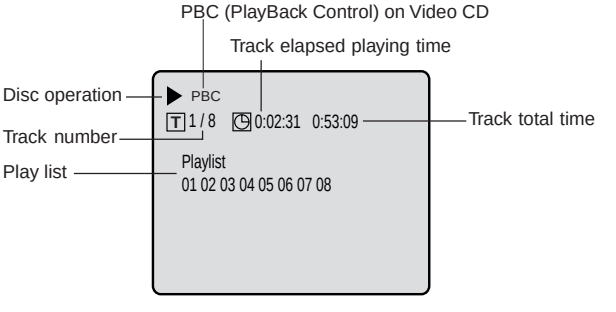
Press **DISPLAY**. The status display of the disc will appear on the screen.

DVD



To make status display disappear, press **DISPLAY** again.

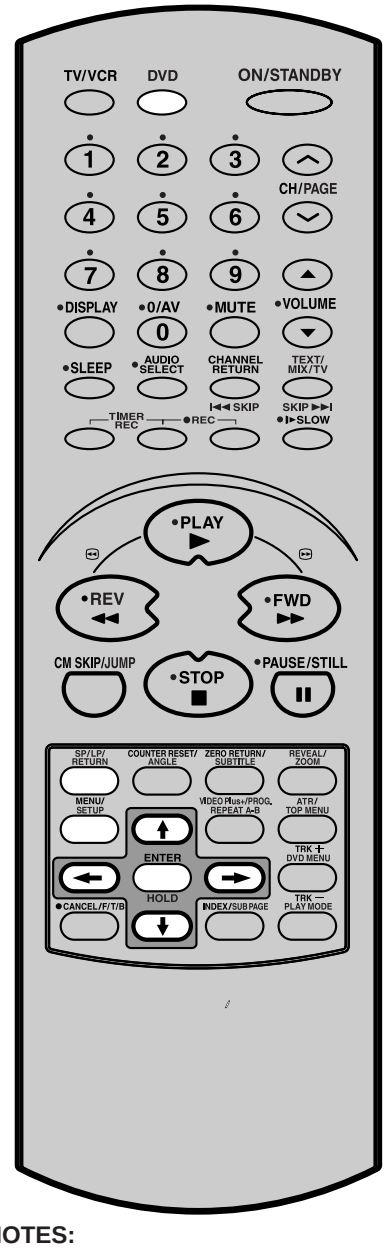
Audio CD/Video CD



- When you play the CD disc, the status display will appear on the screen and continue displaying.
- When you play the Video CD, Play list will not appear on the screen.

SETTING LANGUAGE

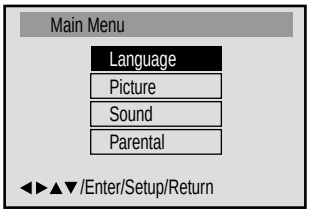
You can change the default settings to customise performance to your preference.



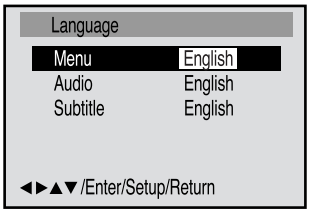
NOTES:

- If the selected soundtrack language is not recorded on the disc, the original language will be heard.
- If the selected subtitle language is not recorded on the disc, the first-priority language is selected.

1 Press **DVD** to select DVD mode.
Press **SETUP** in the stop mode.
Press ↑ or ↓ to select "Language", then press → or **ENTER**.

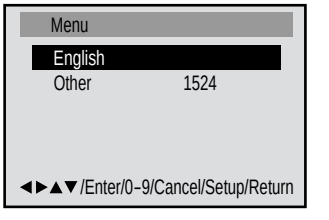


2 Press ↑ or ↓ to select "Menu", then press → or **ENTER**.



3 Press ↑ or ↓ to select desired language (e.g. English), then press **ENTER**.
The menu returns to "Language" menu automatically.

- If you want to return to the previous menu, press ← or **RETURN**.



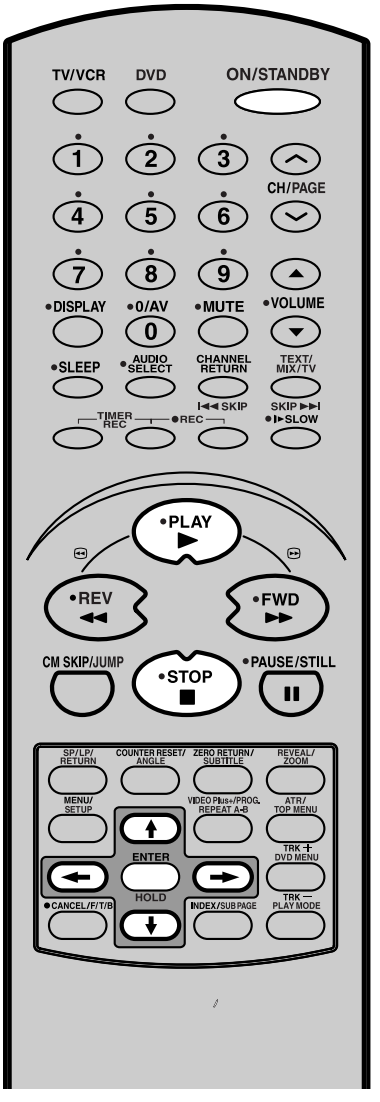
4 Repeat steps 2-3 for other "Language" setting.

Other Selection: (Menu/Audio/Subtitle)
If you want to select another language, enter the language code (see the Language code list on page 58).

Off: (subtitle)
Subtitles do not appear.

5 Press **SETUP** to remove the Menu screen.

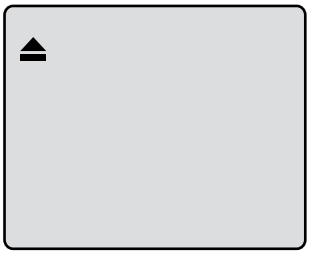
PLAYBACK PROCEDURE



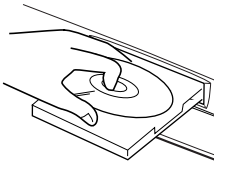
NOTES:

- If a non-compatible disc is loaded, “Incorrect Disc”, “Region Code Error” or “Parental Error” will appear on the TV screen according to the type of loaded disc. If these appear, check your disc again (see pages 43 and 55).
- Some discs may take a minute or so to start playback.
- When you set a single-faced disc label downwards (ie. the wrong way up) and press ▶ **(PLAY)** or ⏏ **(OPEN/CLOSE)** on the unit, “⊘” will appear on the display for 3 about seconds and then “No Disc” will be displayed.
- Some playback operations of DVDs may be intentionally fixed by software producers. Since this unit plays DVDs according to the disc contents the software producers designed, some playback features may not be available. Also refer to the instructions supplied with the DVDs.

1 Press ⏏ **(OPEN/CLOSE)** on the unit.
The disc tray will open.

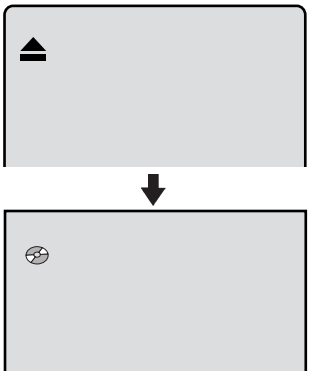


2 Place a disc onto the tray. Position it with the printed label side up, align it with the guides, and place it in its proper position.



3 Press **PLAY**.
The disc tray closes automatically.
The TV-screen, ⏏ changes to “⊘” and then playback commences.

- A menu screen will appear on the TV screen, if the disc has a menu feature.



4 Press ↑ / ↓ or ←/→ to make a selection.

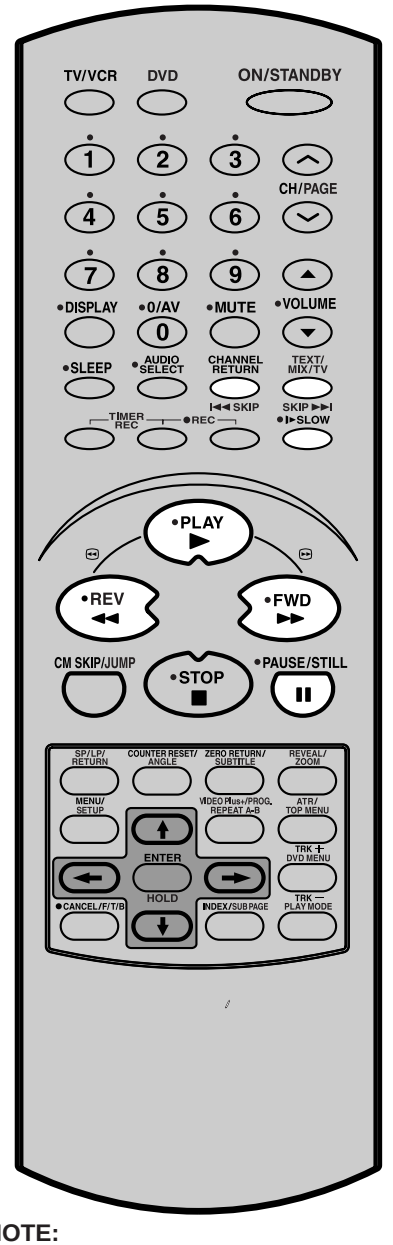
5 Press **ENTER**.
- Title is selected and play commences.

6 Press **STOP** to end playback.
- The unit memorizes the stopped point, depending on the disc. “⚑” appears on the screen. Press **PLAY** to resume playback (from the scene point).
- If you press **STOP** again or unload the disc (“■” appears on the screen.), the unit will clear the stopped point.

7 To stop the playback, press **STOP**.
Then press ⏏ **(OPEN/CLOSE)** on the unit.
The disc tray opens.
Remove the disc and press ⏏ **(OPEN/CLOSE)** on the unit then press **ON/STANDBY**.
The disc tray closes automatically and unit turns off.

SPECIAL PLAYBACK

Note: There may be a slight delay between when you press the button and the function activating.



NOTE:
The unit is capable of holding a still video image or On screen display image on your television screen indefinitely. If you leave the still video image or On screen display image displayed on your TV for an extended period of time, you risk permanent damage to your television screen. Projection televisions are very susceptible.

Fast Forward Playback

Press **FWD** during normal playback.

Each press of the **FWD** button will increase the speed of the search ▶▶ (x 2), ▶▶▶ (x 4), ▶▶▶▶ (x 8), ▶▶▶▶▶ (x 15).
(CD: ▶▶ (x 2), ▶▶▶ (x 4), ▶▶▶▶ (x 8), ▶▶▶▶▶ (x 20))

• To resume normal playback, press **PLAY**.

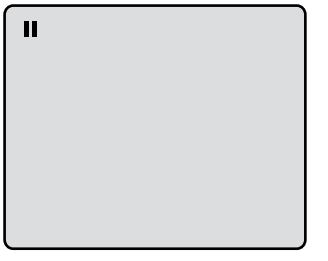
Review Playback

Press **REV** during normal playback.
Each press of the **REV** button will increase the speed of the search ◀◀ (x 2), ◀◀◀ (x 4), ◀◀◀◀ (x 8), ◀◀◀◀◀ (x 15).
(CD: ◀◀ (x 2), ◀◀◀ (x 4), ◀◀◀◀ (x 8), ◀◀◀◀◀ (x 20))

• To resume normal playback, press **PLAY**.

Still Playback

Press **PAUSE/STILL** during normal playback to pause playback.



To resume normal playback, press **PLAY**.

Frame Advance

Press **PAUSE/STILL** during still playback.
One frame is advanced each time you press **PAUSE/STILL**.

To resume normal playback, press **PLAY**.

Slow-motion Playback

Press **SLOW** during normal playback or still playback.
Each press of **SLOW** will change the speed of the slow x1/2, x1/4, x1/6, x1/8.

• To resume normal playback, press **PLAY**.
• To resume the still playback, press **PAUSE/STILL**.

Locating a chapter or track

Press **SKIP(▶▶I)** Forward or **SKIP(I◀◀)** Reverse during playback to locate a chapter that you want to watch.
Each time you press the button, a chapter or track is skipped.

MP3 PLAYBACK

This player can play back the MP3-data which has been recorded on CD-R or CD-RW. To produce the MP3-data, you need a Windows-PC with CD-ROM drive and a MP3-encoding Software (not supplied).
The Apple-HFS-System can not be played.

MP3 CD Information

Limitations on MP3 CD playback

- MP3 CD is the disc that is standardized by ISO9660, its file name must include 3-digits extension letters, “mp3”.
- The directory and file names of the MP3 CD must be correspond to the ISO standardized files.
- This unit can read 200 files per disc. If one directory has more than 200 files, it reads up to 200 files, the remaining files will be omitted.
- MP3 CD’s cannot be used for playback for the purpose of recording.
- It may take more than one minute for this unit to read MP3 files depending on its structure.
- Music recorded by “Joliet Recording Specification” can be played back, the file name is displayed on the screen.
- The music files recorded by “Hierarchical File System” (HFS) cannot be played.

Notes on MP3 files

To play back MP3 CD in the recorded order,

1. Use MP3 software that records data alphabetically or numerically.
2. Name each file including two-digit or three-digit number (e.g. “01” “02” or “001” “002”).
3. Refrain from making too many sub-folders.

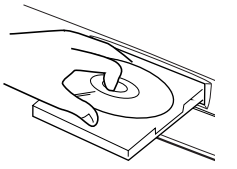
CAUTION:

- Some MP3 CDs can not be played back depending on the recording conditions.
- The CD-R/RW that has no music data or non-MP3 files can not be played back.

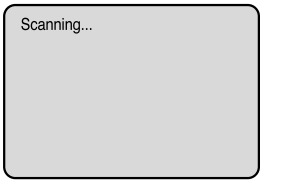
Preparation:

- Turn ON the TV and set to the video input mode.
- Press **DVD** to select the DVD mode.

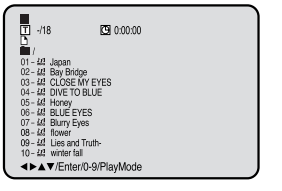
1 Press ⏏ **(OPEN/CLOSE)** on the unit.
The disc tray will open.
Place a disc onto the tray.



2 Press **PLAY**. The disc tray closes automatically. On the TV-screen, “Scanning...” will appear. Scanning will take as much time as the number of file.



3 A MP3 menu screen will appear on the TV screen.
Press ↑/↓ or ←/→ or **Number buttons (0-9)** to select the desired track, then press **ENTER**. Track is selected and play commences.



- In case the folder includes more than 11 tracks, press ← or → to display next track list.

4 Press **STOP** to end playback.

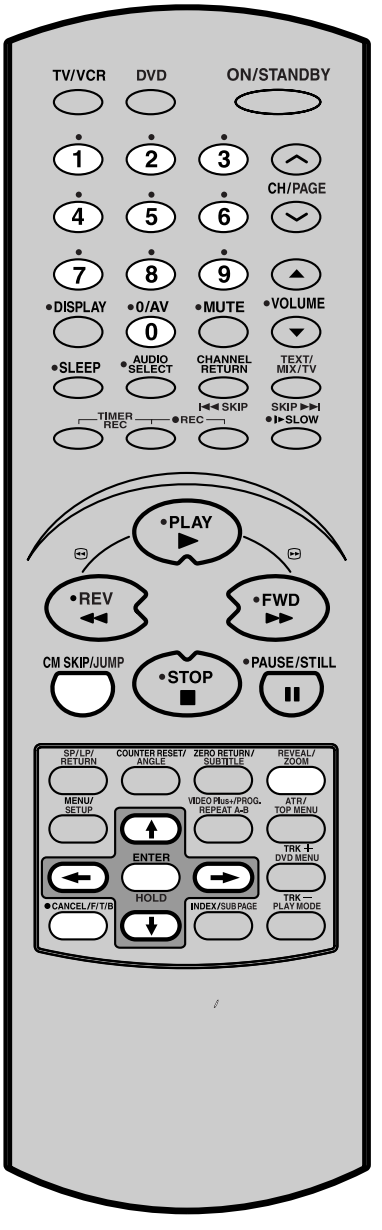
- The unit records the stopped point. “⚑” appears on the screen. Press **PLAY** to resume playback (from the scene point).
- If you press **STOP** again or unload the disc, the unit will clear the stopped point.

5 Then press ⏏ **(OPEN/CLOSE)** on the unit.
The disc tray opens.
Remove the disc and press **ON/STANDBY**.
The disc tray closes automatically and the unit turns off.

NOTES:

- During MP3-Playback, you can not use SEARCH, A-B Repeat functions.
- You can use Repeat (Track or All), Random functions and Program playback for MP3 CD Playback. (See page 50)

ZOOMING/LOCATING DESIRED SCENE

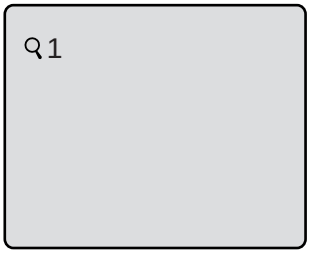


NOTES:
- You can select the Pause, Slow or Search playback in the zoom mode.
- Some discs may not respond to zoom feature.

Zooming

This unit will allow you to zoom in on the frame image. You can then make selections by switching the position of the frame.

1 Press **ZOOM** during playback.
The centre part of the image will be zoomed in.
Each press of **ZOOM** will change the ZOOM 1 (x 2), 2 (x 3) and 3 (x 4).



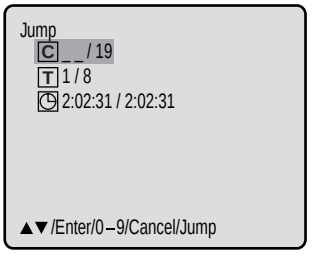
2 Press ↑/↓ or ←/→ to view a different part of the frame.
You may move the frame from the centre position to UP, DOWN, LEFT or RIGHT direction.

3 In the zoom mode press **ZOOM** repeatedly to return to a 1:1 view (Off).

Locating Desired Scene

Use the title, chapter and time recorded on the disc to locate the desired point to play back.

1 Press **JUMP** during playback.



2 Press ↑ or ↓ to select the "C (Chapter)", "T (Title/Track)" or "(Time)".

3 Press **Number buttons (0–9)** to input the number.

- If you input a wrong number, press **CANCEL**.
- Refer to the package supplied with the disc to check the numbers.

4 Press **ENTER**.

- Playback starts.
- When you change the title, playback starts from Chapter 1 of the selected title.
- Some discs may not work in the above operation.

REPEAT/RANDOM/PROGRAM PLAYBACK AND REPEAT A-B

Press **PLAY MODE** during playback or stop mode.
Each time you press **PLAY MODE**, playback mode changes as follows.

DVD

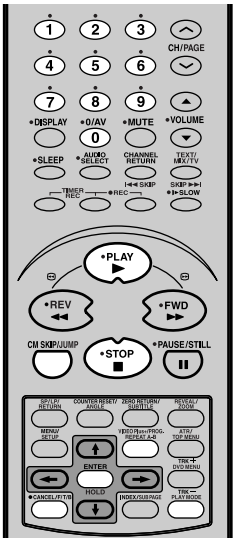
On screen display	Operation
Title:	Repeats the current title.
Chapter:	Repeats the current chapter.
Off:	Resumes normal playback.

- During stop mode, **PLAY MODE** key is not effective.

Audio CD/MP3 CD/Video CD

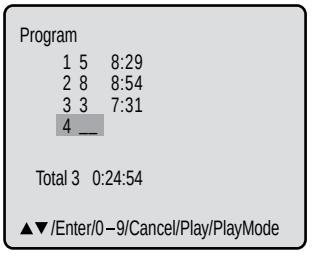
On screen display	Operation
All:	Repeats entire disc.
Track:	Repeats the current track.
Random Play:	Plays the tracks in random order.
*Program:	Plays the tracks in program order.
(Status display):	Resumes normal playback.

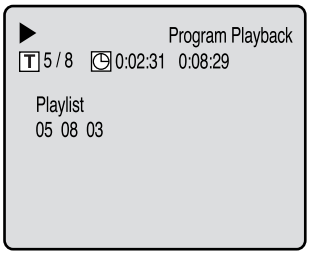
- During stop mode, you can not select "Track".
- Random playback and Program playback do not function on the Video CD.



*Program menu

Use **number buttons (0–9)** to enter the track's number you want to program, then press **ENTER**. The track number and total time are displayed. Repeat this step to enter additional tracks. When you have finished entering tacks, press **PLAY** to start Program playback.
A playlist of your programmed tracks is displayed.



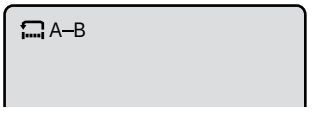


Repeat A-B

Repeat A-B playback allows you to repeat material between two selected points.

1 Press **REPEAT A-B** during playback.
The start point is selected.

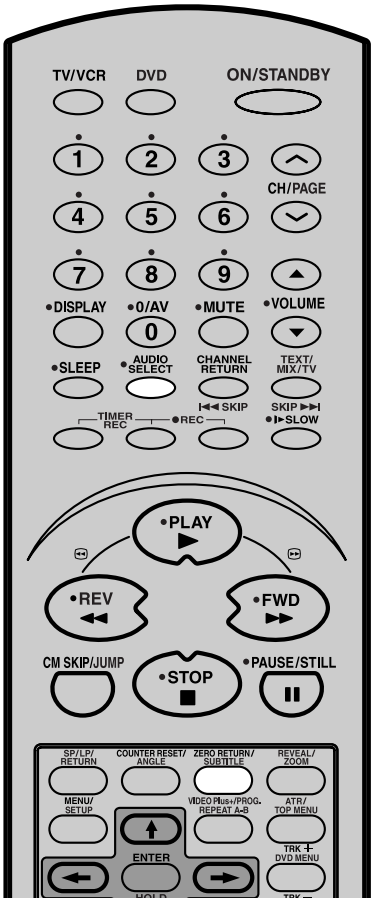
2 Press **REPEAT A-B** again.
The end point is selected. Playback starts at the point that you selected. Playback stops at the end point, returns to Point A automatically, then starts again.



To resume normal playback press **REPEAT A-B** again.
"Off" appears on the screen.

NOTES:
- Some discs may not work with the repeat operation.
- In Repeat A-B mode, subtitles near point A or B may not appear.
- You may not be able to set Repeat A-B, depending on the scenes of the DVD.
- Repeat A-B does not work with MP3 CD and interactive DVDs.

CHANGING SOUNDTRACK LANGUAGE/SUBTITLES



NOTES:

- If the desired language is not heard after pressing the SUBTITLE button several times, the language is not recorded on the disc.
- Changing soundtrack language is cancelled when you open the disc tray. The initial default language or available language will be heard if the disc is played back again.
- Changing subtitle language is cancelled when you open the disc tray or turn the power off.
- Some functions may not work on some DVDs. You may not be able to turn subtitles on or off or change subtitles. While playing the DVD, the subtitle may change when:
  - you open or close the disc tray
  - you change the title.
- In some cases, the subtitle language is not changed to the selected one immediately.

Changing soundtrack language

You can select the language when you play a multilingual disc.

1 Press **AUDIO SELECT** during playback.

2/8 Fra Dolby Digital

The current soundtrack language will appear.

2 Press **AUDIO SELECT** repeatedly until the desired language is selected.

1/8 Eng Dolby Digital

The on-screen display will disappear after a few seconds.

In case of video CD playback

Audio type changes as follows each time you press **ADUIO SELECT**.

Subtitles

Turning the Subtitles On and Off

When playing back a disc recorded with subtitles, you can turn the subtitles on or off.

Press **SUBTITLE** during playback until “Off” appears.

Off

Changing the subtitle language

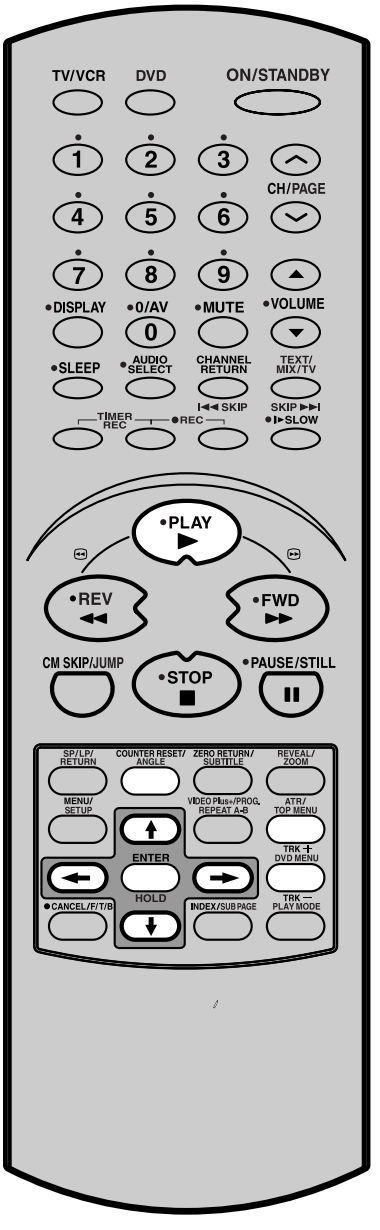
You can select the language when playing back a disc recorded with multi-lingual subtitles.

1 Press **SUBTITLE** repeatedly during playback until your desired language appears.

1/32 Eng

2 The on-screen display will disappear after a few seconds.

CHANGING ANGLES/TITLE SELECTION/DVD MENU



NOTES:

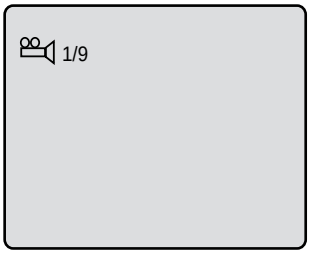
- Depending on the DVD, you may not be able to change the angles even if multi-angles are recorded on the DVD.
- Depending on the DVD, you may not be able to select the title. Depending on the DVD, a “title menu” may simply be called a “menu” or “title” in the instructions supplied with the disc.

Changing Angles

When playing back a disc recorded with multi-angle facility, you can change the view angle.

1 Press **ANGLE** during playback.

The current angle will appear.



2 Press **ANGLE** repeatedly until the desired angle is selected.

Title Selection

Two or more titles are recorded on some discs. If the title menu is recorded on the disc, you can select the desired title.

1 Press **TOP MENU** during playback.
Title menu appears on the screen.

2 Press ↑/↓ or ←/→ to select the desired title.

3 Press **ENTER** or **PLAY**.
The playback of the selected title will start.

DVD Menu

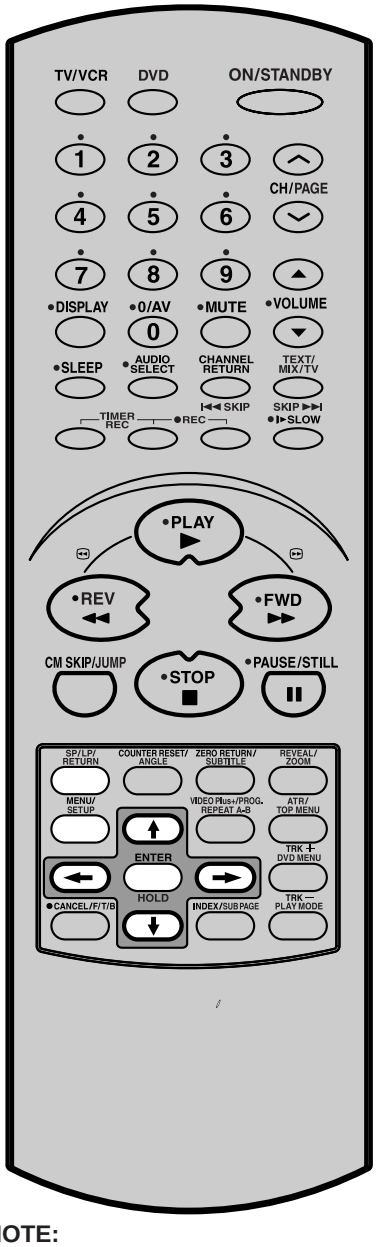
Some DVDs allow you to select the disc contents using the menu.
When you play back these DVDs, you can select the subtitle language and sound-track language,etc. using the DVD menu.

1 Press **DVD MENU** during playback.
The DVD menu appears on the screen.

- Press **DVD MENU** again to resume playback at the scene when you pressed **DVD MENU**.

2 Press ↑/↓ or ←/→ to select the desired item.

3 Press **ENTER**.
The menu continues to another screen. Repeat steps **2** and **3** to set additional items if any.

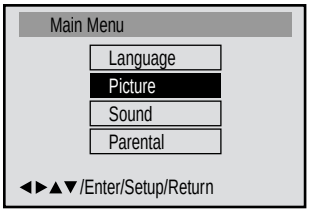


NOTE:
It is not always possible for the DVD disc to display the picture as per your preferred picture setting - for example, if you select '4:3 Panscan', the disc may not offer this option. In this case the picture would display in whichever format the disc is capable of playing back.

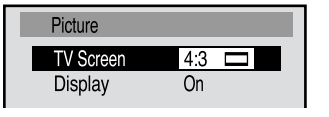
Setting the aspect ratio of TV screen

You can select the aspect ratio of the picture.

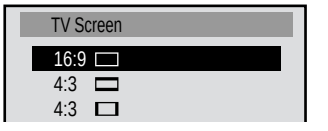
1 Press **SETUP** in the stop mode or No Disc.
Press ↑ or ↓ to select "Picture", then press → or **ENTER**.



2 Press ↑ or ↓ to select "TV Screen", then press → or **ENTER**.



3 Press ▲ or ▼ to select your desired screen type, then press **ENTER**.



You have the following screen sizes to choose from:

16:9 ▭ Wide screen
A wide screen picture is displayed full size, although the image on the screen may be geometrically distorted in this mode because the TV screen has an aspect ratio of 4:3 not 16:9. However it is possible to connect this set to an external widescreen (16:9) TV set via the SCART socket (see P.9).

4:3 ▭ Letterbox
When playing back a wide screen-DVD disc, it displays the wide picture with black bands at the top and bottom of screen.

4:3 ▭ Panscan
It displays the wide picture on the whole screen with left and right edges automatically cut off.

- If you want to return to the previous menu, press ← or **RETURN**.

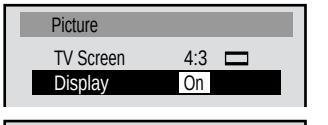
4 Press **SETUP** to remove the Menu screen.

Status on screen display

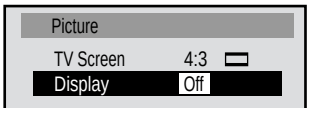
On screen display can be switched on or off when you press the buttons.

1 Press **SETUP** in the stop mode or No Disc.
Press ↑ or ↓ to select "Picture", then press → or **ENTER**.

2 Press ↑ or ↓ to select "Display".



3 Press → or **ENTER** to select "On" or "Off".



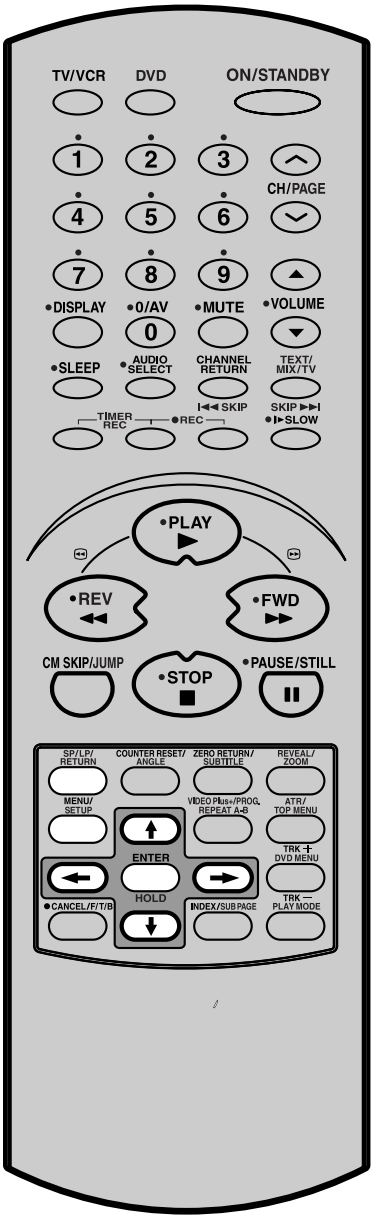
On: On screen displays appear when you press the buttons (factory setting).
Off: On screen displays do not appear when you press any buttons.

- If you want to return to the previous menu, press ← or **RETURN**.

4 Press **SETUP** to remove the Menu screen.

DYNAMIC RANGE CONTROL

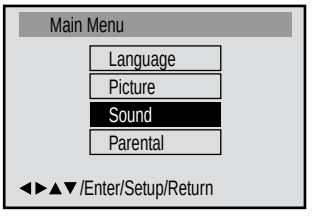
DRC (Dynamic Range Control) enables you to control the dynamic range so as to achieve a suitable sound for your equipment.



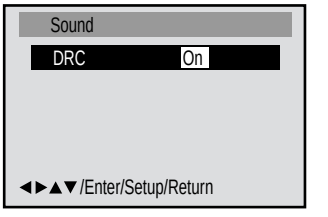
NOTES:

- This function works only during playback of Dolby Digital recorded discs.
- The level of Dynamic Range Reduction may differ depending on DVD video disc.

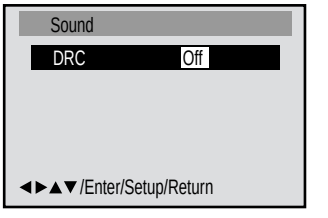
1 Press **SETUP** in the stop mode.
Press ↑ or ↓ to select "Sound".



2 Press → or **ENTER** to select "DRC".



3 Press → or **ENTER** to select "On" or "Off".

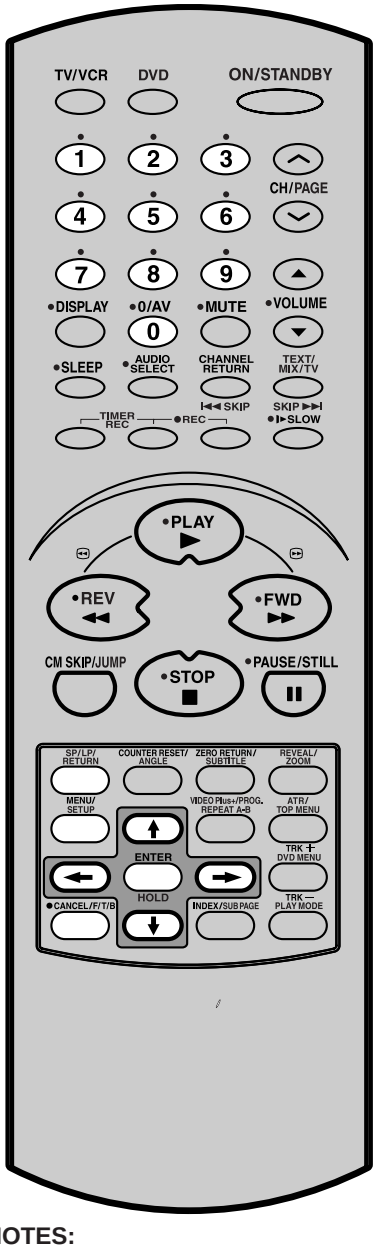


- If you want to return to the previous menu, press ← or **RETURN**.

4 Press **SETUP** to remove the Menu screen.

PARENTAL CONTROL SETTING

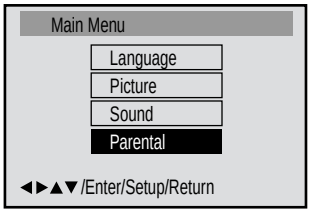
Some discs are specified not suitable for children. Such discs can be limited not to play back with the unit.



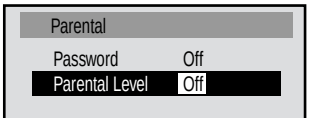
NOTES:

- **If each setup (P.45, 53–56) has been completed, the unit can always be worked under the same conditions (especially with DVD discs).**
  Each setup will be retained in the memory when you turn the power off.
- Depending on the discs, the unit cannot limit playback.
- Some discs may not be encoded with specific rating level information though its disc jacket says "adult." For those discs, the age restriction will not work.

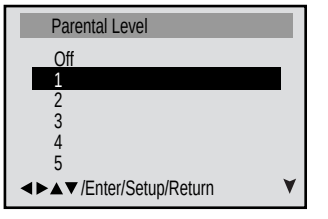
1 Press **SETUP** in the stop mode.
Press ↑ or ↓ to select "Parental", then press → or **ENTER**.



2 Press ↑ or ↓ to select "Parental Level", then press → or **ENTER**.

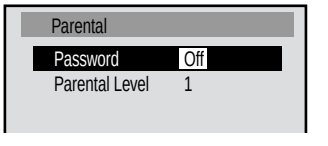


3 Press ↑ or ↓ to select a level from Off or 1–8. Press → or **ENTER** to set the selected level.

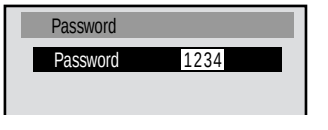


- **Level Off:** The parental control setting does not function.
- **Level 8:** Almost all DVD software can be played back.
- **Level 1:** DVD software for adults cannot be played back.
- Select from the level 1 to level 8. The limitation will be more severe as the level number is lower.

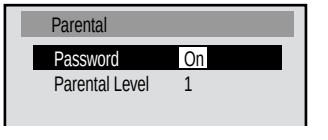
4 Press ↑ or ↓ to select "Password", then press → or **ENTER**.



5 Press **number buttons (0–9)** for the password.
Don't forget the password.
- If you input a wrong number, press **CANCEL**.



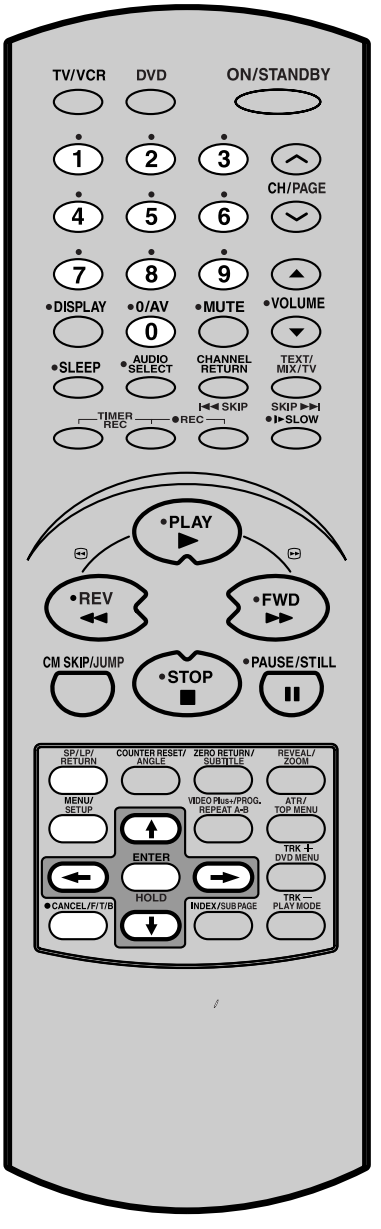
6 Press **ENTER** to store the password.
Note: Now the rating is locked and the setting cannot be changed unless you enter the correct password.



- If you want to return to the previous menu, press ← or **RETURN**.

7 Press **SETUP** to remove the parental control screen.

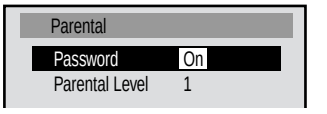
TO CHANGE THE PARENTAL LEVEL



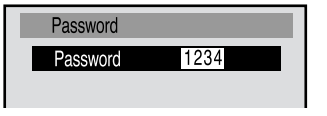
NOTE:
Do not forget the password. If you forget your password, or would like to change it, you can reset the code by pressing both the DVD STOP button on the unit and the number 2 button on the remote control for approx. 3 seconds simultaneously. Please contact the customer helpline on page 60 for details.

1 Press **SETUP** in the stop mode or No Disc.
Press ↑ or ↓ to select "Parental", then press → or **ENTER**.

2 Press ↑ or ↓ to select "Password", then press → or **ENTER**.

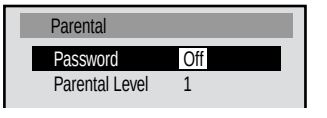


3 Press **number buttons (0–9)** to enter the password you have stored.

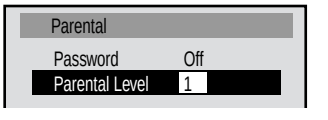


- If you input a wrong number, press **CANCEL**.

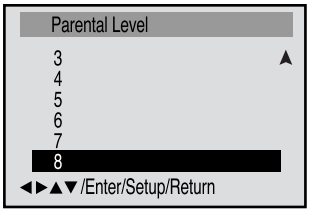
4 Press **ENTER**.
The password is now Off.



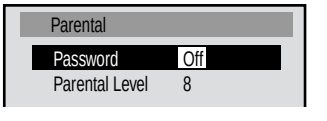
5 Press ↑ or ↓ to select "Parental Level". Then press → or **ENTER**. The Parental Level screen is displayed.



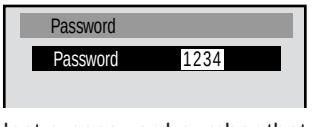
6 Press ↑ or ↓ to select a level from Off or 1–8 and then press → or **ENTER**.



7 Press ↑ or ↓ to select "Password" and then press → or **ENTER**.

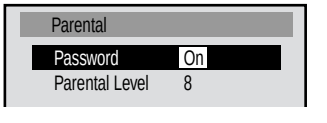


8 Press **number buttons (0–9)** to enter a 4-digit password.



Note: Make sure that you select a password number that you will remember easily.

9 Press **ENTER**.
The parental level is now changed and locked.

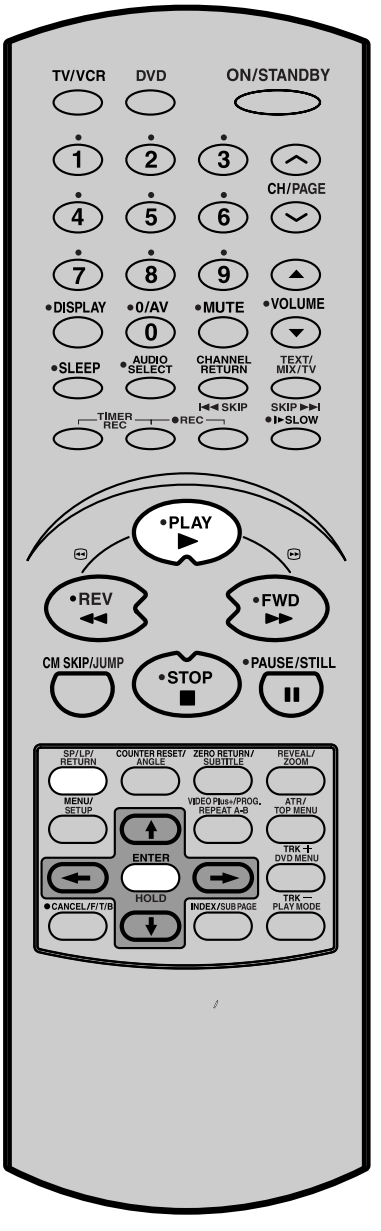


- If you want to return to the previous menu, press ← or **RETURN**.

10 Press **SETUP** to remove the parental control screen.

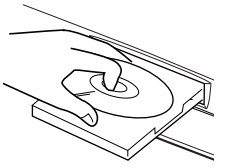
TEMPORARY DISABLING OF RATING LEVEL BY DVD DISC

Depending on the DVD disc, the disc may try to temporarily cancel the rating level that you have set.
It is up to you to decide whether to cancel the rating level or not.

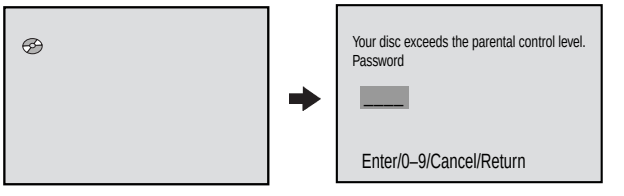


NOTE:
This temporary cancellation of rating level will be kept until the disc is ejected.
When the disc is ejected, the original rating level will be set again automatically.

1 Load a DVD disc and press **PLAY** (see page 46).



2 If the DVD disc has been designed to temporarily cancel the Rating level, the screen which appears after inserting a DVD will change, depending on which disc is played. If you select “YES” with the **ENTER** key, “Your disc exceeds the parental control level.” screen will then appear.



3 If you wish to cancel the set rating level temporarily, enter the 4-digit password.
Then press **ENTER**.
Alternatively, if the password has not been set, playback will commence. If you don’t know (or have forgotten) the password, select “STOP”.
The setting screen will disappear. Press ⏏ **(OPEN/CLOSE)** on the unit to remove the disc.

To quit entering, press **RETURN**.

4 Playback will commence if the entered password was correct.

LANGUAGE CODE LIST

Enter the appropriate code number for the initial settings "AUDIO", "SUBTITLE" and/or "MENU LANGUAGE" (see page 45).

Language Name	Code	Language Name	Code	Language Name	Code	Language Name	Code
Abkhazian	1112	Fiji	1620	Lingala	2224	Singhalese	2919
Afar	1111	Finnish	1619	Lithuanian	2230	Slovak	2921
Afrikaans	1116	French	1628	Macedonian	2321	Slovenian	2922
Albanian	2927	Frisian	1635	Malagasy	2317	Somali	2925
Amharic	1123	Galician	1722	Malay	2329	Spanish	1529
Arabic	1128	Georgian	2111	Malayalam	2322	Sundanese	2931
Armenian	1835	German	1415	Maltese	2330	Swahili	2933
Assamese	1129	Greek	1522	Maori	2319	Swedish	2932
Aymara	1135	Greenlandic	2122	Marathi	2328	Tagalog	3022
Azerbaijani	1136	Guarani	1724	Moldavian	2325	Tajik	3017
Bashkir	1211	Gujarati	1731	Mongolian	2324	Tamil	3011
Basque	1531	Hausa	1811	Nauru	2411	Tatar	3030
Bengali; Bangla	1224	Hebrew	1933	Nepali	2415	Telugu	3015
Bhutani	1436	Hindi	1819	Norwegian	2425	Thai	3018
Bihari	1218	Hungarian	1831	Oriya	2528	Tibetan	1225
Breton	1228	Icelandic	1929	Panjabi	2611	Tigrinya	3019
Bulgarian	1217	Indonesian	1924	Pashto, Pushto	2629	Tonga	3025
Burmese	2335	Interlingua	1911	Persian	1611	Turkish	3028
Byelorussian	1215	Irish	1711	Polish	2622	Turkmen	3021
Cambodian	2123	Italian	1930	Portuguese	2630	Twi	3033
Catalan	1311	Japanese	2011	Quechua	2731	Ukrainian	3121
Chinese	3618	Javanese	2033	Rhaeto-Romance	2823	Urdu	3128
Corsican	1325	Kannada	2124	Romanian	2825	Uzbek	3136
Croatian	1828	Kashmiri	2129	Russian	2831	Vietnamese	3219
Czech	1329	Kazakh	2121	Samoan	2923	Volapük	3225
Danish	1411	Kirghiz	2135	Sanskrit	2911	Welsh	1335
Dutch	2422	Korean	2125	Scots Gaelic	1714	Wolof	3325
English	1524	Kurdish	2131	Serbian	2928	Xhosa	3418
Esperanto	1525	Laothian	2225	Serbo-Croatian	2918	Yiddish	2019
Estonian	1530	Latin	2211	Shona	2924	Yoruba	3525
Faroese	1625	Latvian, Lettish	2232	Sindhi	2914	Zulu	3631

BEFORE REQUESTING SERVICE

If your unit does not work properly check the following before calling a service engineer.

SYMPTOMS	CAUSE	SOLUTION	PAGE
POWER			
No power.	The Mains lead is not connected.	Connect Mains lead to AC outlet.	7
	Main power switch is OFF.	Set it to ON.	4
Recorder does not work even though STANDBY light is on.	TIMER REC buttons is ON. (TIMER REC indicator is on.)	Set it to OFF. (TIMER REC indicator is off.)	31
	Moisture condensation has formed inside recorder.	Wait for a few hours.	2
TV BROADCAST RECEPTION			
No picture, no sound.	The Mains lead is disconnected.	Connect the Mains lead to the AC outlet.	7
	Aerial connector is not connected or wires are broken.	Check aerial connections or broken wires.	7
	The ON/STANDBY button is off.	Press the ON/STANDBY button.	4
	Possibly station trouble.	Try another channel.	14
Sound OK, poor picture.	Possibly station trouble.	Try another channel.	14
	Aerial connector is not connected or wires are broken.	Check aerial connections or broken wires.	7
	Possibly local interference.	Move the aerial away from the source of interference.	61
Picture OK, poor sound.	Possibly station trouble.	Try another channel.	14
	Possibly local interference.	Move the aerial away from the source of interference.	61
	Volume control set at minimum position.	Increase VOLUME control.	14
Poor reception.	Aerial connector is not connected or wires are broken.	Check aerial connections or broken wires.	7
	Possibly station trouble.	Try another channel.	14
Poor colour or no colour.	Aerial connector is not connected or wires are broken.	Check aerial connections or broken wires.	7
	Possibly station trouble.	Try another channel.	14
	Possibly local interference.	Move the aerial away from the source of interference.	61
	Colour control is not adjusted.	Adjust the colour settings.	16
VCR			
Recording does not work.	Protection tab on the cassette tape has been removed.	Place an adhesive tape over the gap.	20
Timer recording does not work.	Main power switch is OFF.	Set main power to ON.	4
	Clock is not set.	Set the clock.	11
	START/END time is not correctly.	Set the START/END time correctly.	30/31
	TIMER REC button is OFF.	Set the TIMER REC button to ON.	31
	Present time is not set correctly.	Set the present time correctly.	11
	One-Touch Timer Recording (OTR) is ON.	After OTR recording, set the timer recording.	33
INDEX mark was not registered.	INDEX mark was recorded at the beginning of the tape.	Let the tape run for a couple of seconds before recording the first INDEX mark.	38
Noise bars on screen.	Tracking is not adjusted.	Adjust the TRACKING control.	22
	Video heads are dirty.	Clean the video heads.	61
	The tape is worn or damaged.	Try another tape.	–
Can not locate INDEX mark.	The tape is worn or damaged.	Try another tape.	–
DVD			
The playback picture has occasional distortion.	The disc is dirty.	Eject the disc and clean it.	43
	It is in fast forward or fast reverse playback.	Some times a small amount of picture distortion may appear. This is not a malfunction.	–

SYMPTOMS	CAUSE	SOLUTION	PAGE
DVD			
The unit does not start playback.	No disc is inserted.	Insert a disc.	46
	An unplayable disc is inserted.	Insert a playable disc (Check the disc type and colour system).	43
	The disc is placed upside down.	Place the disc with the playback side down.	46
	The disc is not placed within the guide.	Place the disc correctly inside the guide on the disc tray.	46
	The disc is dirty.	Clean the disc.	43
	The parental lock function is set.	Cancel the parental lock function or change the parental lock level.	55,56
Playback does not follow the course of the disc's program.	It is in the mode of repeat playback, memory playback, etc.	These operations may prevent a proper progress of the contents.	–
⊘ appears on the screen.	The function is prohibited with the unit or the disc.	–	–
REMOTE CONTROL			
Remote control does not work.	It is not aimed at the remote sensor.	Aim it at the remote control sensor.	6
	Distance too far or there is too much light in the room.	Operate within 5 metres and reduce the light of the room.	6
	Obstacle in the path of beam.	Clear the path of the beam.	6
	Batteries are weak.	Replace batteries.	6
	Polarities of the batteries, + or –, are not inserted correctly.	Install batteries correctly.	6

NOTE: In the case that the scart input of the unit is connected to AV1 scart of a recordable equipment such as a VTR, DVD+VTR, DVD-R etc and when the input of the recordable equipment is also selected to AV1, there maybe some white flashing lines on the screen and a high pitch sound may also be heard. This is due to the feedback loop of the connections to the unit and it is not a defect of the unit.

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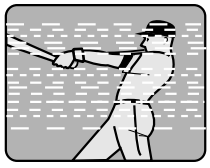
RECEPTION DISTURBANCE/VIDEO HEAD CLOGGING

The most common types of television interference are as follows.

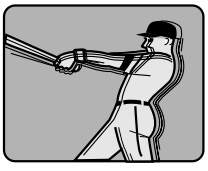
IGNITION

Black spots or horizontal streaks may appear, picture may flutter or drift. Usually caused by interference from car ignition systems, neon lamps, electrical drills and other electrical appliances.



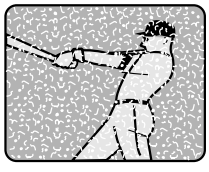
GHOSTS

Ghosts are caused by the television signal following two paths. One is the direct path and the other is reflected from tall buildings, hills or some other object. Changing the direction or position of the antenna may improve the reception.



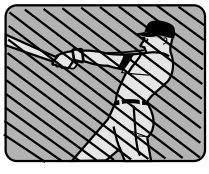
SNOW

If your receiver is located in the fringe area of a television station where the signal is weak, your picture may be marred by the appearance of small dots. When the signal is extremely weak, it may be necessary to install a special antenna to improve the picture.



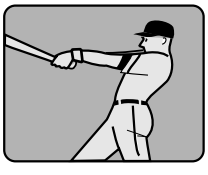
RADIO FREQUENCY INTERFERENCE

The interference produces moving ripples or diagonal streaks, and in some cases, causes loss of contrast in the picture.



PICTURE SIZE VARIATION

A slight picture size variation is normal when you adjust the CONTRAST or BRIGHTNESS control.

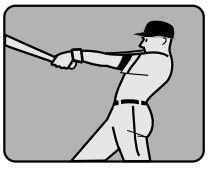


CARE AND MAINTENANCE

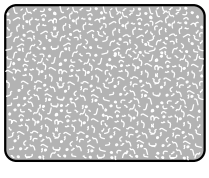
To prevent fire or shock hazard, disconnect the unit from the AC power source before cleaning. The finish on the cabinet may be cleaned with mild soap and a soft damp cloth. Take care when cleaning or wiping the plastic parts.

VIDEO HEAD CLOGGING

The video heads record and playback picture and sound on the video tape. In the event that they become dirty you won't be able to do a perfect recording and the playback picture will be extremely snowy with good sound. If this happens have the unit checked by qualified service personnel.



Good Picture



Snowy Picture

NOTE:

- Video heads may eventually wear out and should be replaced when they fail to produce clear pictures.
- To help prevent video head cleaning, use only good quality VHS tapes. Discard worn tapes.

SPECIFICATION

TELEVISION	
Picture Tube:	21" (51 cm "V") measured diagonally 90 degree deflection
Television System:	UK 625 Lines 50 Fields PAL I
Tuner:	Electronic Tuner
Receiving Channels:	UHF: 21 - 69
Aerial Input:	UHF 75 ohm unbalanced
Audio Output Power:	1.5 W+1.5W (max)
Speaker:	(4.6 x 9.9 cm 8 ohm) x 2
VCR	
Video Recording System:	VHS, 4 Rotary Heads Helical Scanning System Luminance: FM azimuth recording Color signal: converted sub-carrier phase shift recording
Audio Track:	1 Track
Tape Format:	12.65mm high density tape
F. FWD/REW Time at 25°C:	Approx. 1 minute 48 seconds (With E-180 Cassette Tape)
Tape Speed:	SP: 23.39 mm/s, LP: 11.69 mm/s (NTSC SP: 33.35 mm/s)
Play Back Time:	300 min.with E-300 video cassette (PAL) 210 min.with T-210 video cassette (NTSC)
Input Level:	VIDEO: 1 Vp-p, 75 Ω AUDIO: 500 mV, 50 k Ω
Output Level:	VIDEO: 1 Vp-p, 75 Ω AUDIO: 500 mV, 1 k Ω
Hi-Fi Dynamic Range:	More than 75dB
Frequency Response:	20Hz to 20,000Hz
DVD	
Signal system:	PAL
Applicable disc:	DVD (12cm, 8cm), CD (12cm, 8cm)
Audio characteristics:	DVD: 4Hz - 22KHz
Frequency response:	CD: 4Hz - 20KHz
S/N Ratio:	90dB
Harmonic distortion:	0.06%
Wow and flutter:	Below Measurable Level
Output:	Audio : (RCA) –12.0 dBm, 1Kohm Digital Audio : 0.5Vp-p/75 ohm
Pickup:	CD : Wavelength: 775 - 805 nm Maximum output power: 0.5 mW DVD : Wavelength: 640 - 660 nm Maximum output power: 1.0 mW
GENERAL	
Power Source:	AC 230~240V, 50Hz
Power Consumption:	80 W
Weight:	27.5 kg
Dimensions:	573(W)x517(H)x482(D)mm
Operating Temperature:	5°C to 40°C
REMOTE CONTROL UNIT	
Power Supply:	DC 3V (Two batteries, AAA/ R03/ UM-4)
ACCESSORIES	Remote control unit 2 Batteries (AAA/R03/UM-4) Aerial lead

Weight and Dimensions are approximate. Because we continually strive to improve our products we may change specifications and designs without prior notice.

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